

April 30, 2013

Mr. Shane Nixon
Michigan Department of Environmental Quality
Air Quality Division
120 W. Chapin Street
Cadillac, MI 49601-2158

SUBJECT: FIRST QUARTER 2013 EMISSIONS MONITORING REPORT

Dear Mr. Nixon:

Enclosed is the First Quarter 2013 emissions monitoring report for Boilers No. 1 and No. 2 at the T.E.S. Filer City Station (Renewable Operating Permit No. ROP MI-ROP-N1685-2008b). The report includes all information required under Federal Standards of Performance for New Stationary Sources (40 CFR 60, Subparts A, Da, and Appendix F).

This quarterly report contains the Excess Emissions Reports (EERs) and Summary Reports for Boilers No. 1 and No. 2. The report also includes the results of linearity tests conducted in accordance with 40 CFR Part 75, Appendices A and B (all outlet CEMS other than CO), and cylinder gas audits (CGAs) conducted in accordance with 40 CFR Part 60, Appendix F (inlet CEMS and outlet CO CEMS). The associated Certificates of Analysis for the calibration gases used in the linearity tests and CGAs are also included within this quarterly report.

In accordance with Section 4.7.2 of the C/D Waste Wood Monitoring Plan dated September 20, 2012, a quarterly report detailing the quantities and sampling results for C/D wood waste will only be submitted if such materials are received within the calendar quarter. No such materials were received during the 1st quarter 2013, so this quarterly report does not contain any information on C/D waste wood shipments.

Please contact me at (517) 788-1467 or Mr. Richard Brown of TES Filer City Station at (231) 723-6573, Extension 103, if you have any questions or require further information concerning the contents of this quarterly report.

Sincerely,



Jason Prentice
Environmental Planner
Consumers Energy Company

cc: Richard Brown, TES Filer City Station
Karen Kajiya-Mills, MDEQ-AQD
Filer City Compliance File-Q, SA, A File



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

**RENEWABLE OPERATING PERMIT
REPORT CERTIFICATION**

Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Environmental Quality, Air Quality Division upon request.

Source Name T.E.S. Filer City Station County Manistee
Source Address P.O. Box 12 / 700 Mee Street City Filer City
AQD Source ID (SRN) N1685 ROP No. MI-ROP-N1685-2008b ROP Section No. N/A

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From _____ To _____

- ☐ 1. During the entire reporting period, this source was in compliance with ALL terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.
- ☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From _____ To _____

- ☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.
- ☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 01/01/2013 To 03/31/2013

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

Boilers 1 and 2 Quarterly Report for the 1st Quarter of 2013 (January – March).

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

Henry M. Hoffman
Name of Responsible Official (print or type)

General Manager
Title

231-723-6573
Phone Number

Signature of Responsible Official

4-29-2013
Date

T.E.S. FILER CITY STATION

CONTINUOUS EMISSION MONITORING QUARTERLY REPORT

SUBPART Da
(NSPS SOURCES)

Year 2013

Report Period Ending: **March 31** **X** **June 30** **Sept. 30** **Dec. 31**

I. GENERAL INFORMATION

1. Source: T.E.S. FILER CITY STATION
2. Address: 700 MEE STREET
FILER CITY, MICHIGAN 49634
3. Plant Phone Number: (231) 723-6573
4. Affected Facility: BOILER #1 X BOILER #2 X
5. Control Device(s): GEESI/DRY FLUE GAS DESULFERIZATION SYSTEM
GEESI/FABRIC FILTER BAGHOUSES
6. Fuel Type: Coal/Wood/TDF/Petroleum Coke/Construction & Demolition (C/D) Waste
(NOTE: Although allowed by permit, C/D wastes were not fired during the quarter)
7. Person Completing Report

(Print) Jason M. Prentice

(Signature) Jason M. Prentice

(Date) 4-30-13

This is to certify that, to the best of my knowledge, the information provided on these forms is correct and accurate.

8. Person Responsible For Review and Integrity of Report:

(Print) Henry M. Hoffman

(Signature) Henry M. Hoffner

(Date) 4-29-13

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 1 CO2	INLET # 2 CO2	STACK # 1 CO2	STACK # 2 CO2
1. MFG:	Durag, Inc.	Durag, Inc.	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹
2. MODEL NO:	D-R 290	D-R 290	43i	43i	43i	43i	42i	42i	48i	48i	410i	410i	410i	410i
3. SERIAL NO:	425692	425693	0622717879	0622717883	0622717877	0622717880	0623017966	0623017967	0622717887	0622717888	0622717873	0622717875	0622717869	0622717874
4. Basis for Gas Measurement (wet or dry)	N / A	N / A	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET
5. F-Factor Used	N / A	N / A	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	N / A	N / A	N / A	N / A

¹ T. E. I. standards for Thermo Environmental Instruments, Inc.

6. F-Factor Method: Fuel Analyses and Method 19, Equation 19-15 and/or Method 19, Table 19-2. Please note that the fuel factors are unit specific and are based upon the relative amounts (on a heat input basis) of coal, wood, petroleum coke and tire-derived-fuel (TDF) that are fired within a given time period.

7. Ave. Time	6 Minute	6 Minute	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour
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8. Zero/Span
Values

ZERO	0 %	0 %	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 %	0 %	0 %	0 %
SPAN	45 %	45 %	2,000 PPM	2,000 PPM	H: 1,500 PPM ¹ L: 200 PPM ¹	H: 1,500 PPM ¹ L: 200 PPM ¹	500 PPM	500 PPM	H: 3,000 PPM ² L: 300 PPM ²	H: 3,000 PPM ² L: 300 PPM ²	20.0 %	20.0 %	20.0 %	20.0 %

¹ The span values for the SO₂ Stack CEMS were revised from 2,000 ppm for the high span and 500 ppm for the low span just prior to the September 2008 Part 75 certification tests. The revised high and low span values were determined in accordance with sections 2.1.1.3 and 2.1.1.4 of Appendix A to 40 CFR Part 75.

² The historic span value for each of the CO Stack CEMS was 500 ppm (with a full scale of 2,050 ppm). In May of 2012, the plant implemented dual ranges for each CO CEMS, with a low range span value of 300 ppm and a high range span value of 3,000 ppm.

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

	Monitoring System	RATA	7-Day Calibration Drift Test	Cycle-time Test	COMS Field Audit Test	COMS 168-hr Operational Test
9. Date of Last Performance Specification Test Passed	Boiler 1 Gas CEMS	08/28/2012	10/31/2006 (Stk SO ₂ = 09/25/08)	10/18/2006 (Stk SO ₂ = 10/03/08)	N/A	N/A
	Boiler 1 COMS	N/A	N/A	N/A	08/27/2012	10/26/2006
	Boiler 2 Gas CEMS	08/29/2012	10/31/2006 (Stk SO ₂ = 09/25/08)	10/23/2006 (Stk SO ₂ = 10/03/08)	N/A	N/A
	Boiler 2 COMS	N/A	N/A	N/A	08/27/2012	11/01/2006

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 2 CO2	INLET # 2 CO2	STACK #1 CO2	STACK # 2 CO2
10. Modification Since Last PST Date (10-06; 9-08)	NONE	NONE	NONE	NONE	NONE (Changed high & low span vals in 2008)	NONE (Changed high & low span vals in 2008)	NONE	NONE	NONE (Went to dual range as of 5-2012)	NONE (Went to dual range as of 5-2012)	NONE	NONE	NONE	NONE

	10 % (6-Min)	10 % (6-Min)	N / A	N / A	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.3 lb/mm Btu (24-Hour)	0.3 lb/mm Btu (24-Hour)	N / A	N / A	N / A	N / A
11. Emission Limits (Averaging Period)														

T.E.S. FILER CITY STATION**III. MONITORING AND COMPLIANCE SUMMARY (per 40 CFR 60.51a(h))**

	<u>YES</u>	<u>NO</u>	<u>REF.</u>
1. Were the required continuous monitoring systems calibrated, span, and drift checks or other periodic audits performed as specified?	<u>X</u>	<u> </u>	<u> </u>
2. Were the data used to show compliance obtained in accordance with approved methods and procedures of Subpart Da?	<u>X</u>	<u> </u>	<u> </u>
3. Are the data representative of plant performance?	<u>X</u>	<u> </u>	<u> </u>
4. Were the minimum data requirements met? If no, were they not met due to unavoidable errors?	<u>X</u>	<u> </u>	<u> </u>
5. Was compliance with the standards achieved during the reporting period?	<u> </u>	<u>X</u>	<u> </u>
<u>Boiler #1</u>			
SO ₂ Stack Limit 0.7 lb/MMBTU 24 Hour	<u>X</u>	<u> </u>	<u> </u>
SO ₂ Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
SO ₂ 90% Reduction 30 Day	<u>X</u>	<u> </u>	<u> </u>
NO _x Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
Opacity Limit >10% 6 Minute Average	<u> </u>	<u>X</u>	<u> </u>
<u>Boiler #2</u>			
SO ₂ Stack Limit 0.7 lb/MMBTU 24 Hour	<u>X</u>	<u> </u>	<u> </u>
SO ₂ Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
SO ₂ 90% Reduction 30 Day	<u>X</u>	<u> </u>	<u> </u>
NO _x Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
Opacity Limit >10% 6 Minute Average	<u>X</u>	<u> </u>	<u> </u>

T.E.S. FILER CITY STATION**V. EXCESS EMISSION REPORT - SO₂ AND NO_x****SO₂ EVENTS (30 Day Rolling Average Limit of 0.5 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

SO₂ EVENTS (24 Hour Average Limit of 0.7 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	2	N / A	N / A	N / A
None	2	N / A	N / A	N / A

SO₂ EVENTS (30 Day Rolling Average Limit of SO₂ Percent Reduction: Limit=90%)

Date(s) Occurred	Boiler No.	Value (% removal)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NO_x EVENTS (30 Day Rolling Average Limit of 0.60 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

OPACITY EVENTS (Excess Emission Notification >10%, 6-Min. Average, for ≥ 2 Hours)

Date(s) Occurred	Boiler No.	Value (% opacity)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NOTE: All six minute periods during which the average opacity exceeds 10% are identified in the attached monthly "Excess Emissions Report" for Boiler #1 and Boiler #2.

T.E.S. FILER CITY STATION**VI. QUALITY ASSURANCE DATA****1a. OUT-OF-CONTROL ASSESSMENT INFORMATION****BOILER # 1****INLET CO₂ METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717873	None	N / A	N / A

STACK CO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717869	02/02/13; Hrs 5:00 – 14:00 (10 Hrs)	Analyzer failed the calibration drift assessment.	Investigation found a plugged “T” assembly and filter on the stack sample line; cleaned the “T” assembly, replaced the filter and ran passing calibration error tests.
TEI 410i – 0622717869	02/21/13; Hrs 5:00 – 21:00 (17 Hrs)	Analyzer failed the calibration drift assessment.	Replaced the sample line on the probe and ran a passing calibration error test.

INLET SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

STACK SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717877	02/02/13; Hrs 5:00 – 14:00 (10 Hrs)	Analyzer failed the calibration drift assessment.	Investigation found a plugged “T” assembly and filter on the stack sample line; cleaned the “T” assembly, replaced the filter and ran passing calibration error tests.
TEI 43i – 0622717877	02/21/13; Hrs 5:00 – 21:00 (17 Hrs)	Analyzer failed the calibration drift assessment.	Replaced the sample line on the probe and ran a passing calibration error test.

T.E.S. FILER CITY STATION**STACK NO_x METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017966	02/02/13; Hrs 5:00 – 14:00 (10 Hrs)	Analyzer failed the calibration drift assessment.	Investigation found a plugged “T” assembly and filter on the stack sample line; cleaned the “T” assembly, replaced the filter and ran passing calibration error tests.
TEI 42i – 0623017966	02/21/13; Hrs 5:00 – 21:00 (17 Hrs)	Analyzer failed the calibration drift assessment.	Replaced the sample line on the probe and ran a passing calibration error test.

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425692	None	N / A	N / A

2a. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #1

Date(s) Occurred	Description	Corrective Action
02/02/2013 (CO ₂ , SO ₂ and NO _x)	Per Section 1a, all three gas analyzers failed the daily calibration error test.	Per Section 1a, the “T” assembly for the stack sample line was cleaned and the stack sample line filter was replaced, followed by passing calibration error tests.
02/21/2013 (CO ₂ , SO ₂ and NO _x)	Per Section 1a, all three gas analyzers failed the daily calibration error test.	Per Section 1a, the sample line on the probe was replaced and passing calibration error tests were then completed.

3a. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 1 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Relative Accuracy Test Audits (RATAs), Cylinder Gas Audits (CGAs) or Linearity Tests.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled “Downtime Report”. The information provided in Section VI.1a of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

T.E.S. FILER CITY STATION**1b. OUT-OF-CONTROL ASSESSMENT INFORMATION****BOILER # 2****INLET CO₂ METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717875	None	N / A	N / A

STACK CO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717874	02/20/2012; Hrs 06:00 – 9:00 (4 hrs)	Analyzer failed the calibration drift assessment.	Suspect that the span gas cylinder was contaminated with moisture; span gas cylinder was replaced and passing calibration error tests were then completed.

INLET SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717883	None	N / A	N / A

STACK SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717880	02/20/2012; Hrs 06:00 – 9:00 (4 hrs)	Analyzer failed the calibration drift assessment.	Suspect that the span gas cylinder was contaminated with moisture; span gas cylinder was replaced and passing calibration error tests were then completed.

T.E.S. FILER CITY STATION**STACK NO_x METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017967	02/20/2012; Hrs 06:00 – 9:00 (4 hrs)	Analyzer failed the calibration drift assessment.	Suspect that the span gas cylinder was contaminated with moisture; span gas cylinder was replaced and passing calibration error tests were then completed.

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425693	None	N / A	N / A

2b. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #2

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

3b. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 2 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Relative Accuracy Test Audits (RATAs), Cylinder Gas Audits (CGAs), Linearity Tests or CD Error Tests.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled “Downtime Report”. The information provided in Section VI.1b of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

T.E.S. FILER CITY STATION

4. Full Scale Exceedance: Identification of times when pollutant concentration exceeds full span of the continuous monitoring system.

Date(s) Occurred	Boiler No.	Description	Corrective Action
None	1	N / A	N / A
None	2	N / A	N / A

TES FILER CITY STATION AIR EMISSION SUMMARY

JANUARY 2013

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE									NITROGEN OXIDES		
				<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	44640 /	44640	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			100.00%			100.00%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	44640 /	44640	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			100.00%			100.00%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION AIR EMISSION SUMMARY

FEBRUARY 2013

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	40320 /	40320	100.00%	672.0 /	672.0	100.00%	672.0 /	672.0	100.00%	672.0 /	672.0	100.00%	672.0 /	672.0	100.00%
YTD			100.00%			100.00%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	40320 /	40320	100.00%	672.0 /	672.0	100.00%	672.0 /	672.0	100.00%	672.0 /	672.0	100.00%	672.0 /	672.0	100.00%
YTD			100.00%			100.00%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION AIR EMISSION SUMMARY

MARCH 2013

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU									NITROGEN OXIDES <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
BOILER #1															
MONTH	44634 /	44640	99.99%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			100.00%			100.00%			100.00%			100.00%			100.00%
BOILER #2															
MONTH	44640 /	44640	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			100.00%			100.00%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION AIR EMISSION SUMMARY

1st QUARTER 2013

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
JAN	44,640 /	44,640	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%
FEB	40,320 /	40,320	100.00%	672 /	672	100.00%	672 /	672	100.00%	672 /	672	100.00%	672 /	672	100.00%
MAR	44,634 /	44,640	99.99%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%
1 st Quarter	129,594 /	129,600	100.00%	2160 /	2160	100.00%	2160 /	2160	100.00%	2160 /	2160	100.00%	2160 /	2160	100.00%
YTD			100.00%			100.00%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
JAN	44,640 /	44,640	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%
FEB	40,320 /	40,320	100.00%	672 /	672	100.00%	672 /	672	100.00%	672 /	672	100.00%	672 /	672	100.00%
MAR	44,640 /	44,640	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%
1 st Quarter	129,600 /	129,600	100.00%	2160 /	2160	100.00%	2160 /	2160	100.00%	2160 /	2160	100.00%	2160 /	2160	100.00%
YTD			100.00%			100.00%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

CEMS Daily Averages - 01/01/13 To 03/31/13

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Period: 01/01/13 00:00:00 To 03/31/13 23:59:59; Records = 90

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
01/01/13	24		0.413	30	0.165	24	0.186	30	92.15	30	1.72	24
01/02/13	24		0.415	30	0.153	24	0.184	30	92.19	30	1.46	24
01/03/13	24		0.416	30	0.175	24	0.183	30	92.22	30	1.76	24
01/04/13	24		0.417	30	0.185	24	0.182	30	92.24	30	1.86	24
01/05/13	24		0.418	30	0.142	24	0.181	30	92.27	30	1.44	24
01/06/13	24		0.421	30	0.195	24	0.181	30	92.22	30	1.88	24
01/07/13	24		0.423	30	0.203	24	0.181	30	92.24	30	1.89	24
01/08/13	24		0.425	30	0.180	24	0.180	30	92.27	30	1.69	24
01/09/13	24		0.427	30	0.200	24	0.183	30	92.16	30	1.92	24
01/10/13	24		0.428	30	0.185	24	0.183	30	92.13	30	1.77	24
01/11/13	24		0.428	30	0.165	24	0.183	30	92.14	30	1.63	24
01/12/13	24		0.428	30	0.178	24	0.183	30	92.13	30	1.70	24
01/13/13	24		0.427	30	0.152	24	0.180	30	92.20	30	1.48	24
01/14/13	24		0.428	30	0.178	24	0.182	30	92.13	30	1.80	24
01/15/13	24		0.429	30	0.162	24	0.182	30	92.12	30	1.59	24
01/16/13	24		0.430	30	0.156	24	0.181	30	92.16	30	1.55	24
01/17/13	24		0.430	30	0.167	24	0.179	30	92.25	30	1.75	24
01/18/13	24		0.431	30	0.167	24	0.179	30	92.24	30	1.68	24
01/19/13	24		0.432	30	0.151	24	0.177	30	92.28	30	1.41	24
01/20/13	24		0.433	30	0.174	24	0.177	30	92.26	30	1.72	24
01/21/13	24		0.434	30	0.193	24	0.178	30	92.19	30	1.84	24
01/22/13	24		0.434	30	0.244	24	0.180	30	92.10	30	2.04	24
01/23/13	24		0.434	30	0.160	24	0.179	30	92.13	30	1.67	24
01/24/13	24		0.434	30	0.164	24	0.179	30	92.12	30	1.76	24
01/25/13	24		0.434	30	0.190	24	0.178	30	92.14	30	1.86	24
01/26/13	24		0.433	30	0.219	24	0.179	30	92.09	30	1.90	24
01/27/13	24		0.433	30	0.188	24	0.178	30	92.10	30	1.59	24
01/28/13	24		0.432	30	0.162	24	0.177	30	92.15	30	1.72	24
01/29/13	24		0.430	30	0.213	24	0.178	30	92.12	30	1.89	24
01/30/13	24		0.428	30	0.175	24	0.178	30	92.14	30	1.67	24
01/31/13	24		0.426	30	0.226	24	0.180	30	92.05	30	1.97	24
02/01/13	24		0.425	30	0.188	24	0.181	30	92.01	30	1.77	24
02/02/13	24		0.424	29	0.183	13	0.181	29	92.01	29	0.00	13
02/03/13	24		0.423	29	0.179	24	0.181	29	92.01	29	1.75	24
02/04/13	24		0.421	29	0.180	24	0.182	29	91.97	29	1.78	24
02/05/13	24		0.420	29	0.169	24	0.181	29	92.02	29	1.74	24
02/06/13	24		0.418	29	0.179	24	0.181	29	92.06	29	1.68	24

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
02/07/13	24		0.415	29	0.160	24	0.180	29	92.09	29	1.50	24
02/08/13	24		0.413	29	0.183	24	0.179	29	92.12	29	1.81	24
02/09/13	24		0.412	29	0.205	24	0.180	29	92.10	29	1.92	24
02/10/13	24		0.412	29	0.192	24	0.181	29	92.07	29	1.63	24
02/11/13	24		0.410	29	0.196	24	0.182	29	92.05	29	1.65	24
02/12/13	24		0.410	29	0.176	24	0.182	29	92.04	29	1.53	24
02/13/13	24		0.409	29	0.126	24	0.181	29	92.12	29	1.22	24
02/14/13	24		0.407	29	0.188	24	0.181	29	92.09	29	1.64	24
02/15/13	24		0.407	29	0.195	24	0.183	29	92.04	29	1.74	24
02/16/13	24		0.407	29	0.217	24	0.185	29	91.96	29	1.90	24
02/17/13	24		0.407	29	0.223	24	0.186	29	91.88	29	1.88	24
02/18/13	24		0.407	29	0.181	24	0.187	29	91.84	29	1.66	24
02/19/13	24		0.405	29	0.224	24	0.189	29	91.79	29	1.86	24
02/20/13	24		0.404	29	0.213	24	0.190	29	91.77	29	1.40	19
02/21/13	24		0.403	28	0.163	07	0.188	28	91.84	28	0.00	07
02/22/13	24		0.403	28	0.173	24	0.188	28	91.82	28	1.60	24
02/23/13	24		0.404	28	0.205	23	0.190	28	91.75	28	1.73	23
02/24/13	24		0.405	28	0.166	24	0.189	28	91.78	28	1.27	20
02/25/13	24		0.404	28	0.130	24	0.186	28	91.90	28	1.26	24
02/26/13	24		0.404	28	0.208	23	0.186	28	91.86	28	1.67	23
02/27/13	24		0.404	28	0.168	24	0.187	28	91.84	28	1.59	24
02/28/13	24		0.405	28	0.181	24	0.186	28	91.88	28	1.63	24
03/01/13	24		0.406	28	0.183	24	0.186	28	91.86	28	1.69	24
03/02/13	24		0.407	28	0.173	24	0.184	28	91.93	28	1.74	24
03/03/13	24		0.407	28	0.196	24	0.184	28	91.92	28	1.99	24
03/04/13	24		0.408	29	0.186	24	0.184	29	91.92	29	1.86	24
03/05/13	24		0.409	29	0.200	24	0.185	29	91.90	29	2.04	24
03/06/13	24		0.410	29	0.175	24	0.185	29	91.91	29	1.75	24
03/07/13	24		0.410	29	0.182	24	0.185	29	91.89	29	1.69	24
03/08/13	24		0.411	29	0.189	24	0.186	29	91.89	29	1.99	24
03/09/13	24		0.413	29	0.222	24	0.188	29	91.81	29	2.02	24
03/10/13	24		0.414	29	0.175	24	0.187	29	91.82	29	1.61	24
03/11/13	24		0.413	29	0.198	24	0.187	29	91.83	29	1.95	24
03/12/13	24		0.414	29	0.193	24	0.187	29	91.83	29	1.83	24
03/13/13	24		0.415	29	0.175	24	0.187	29	91.85	29	1.74	24
03/14/13	24		0.416	29	0.177	24	0.187	29	91.84	29	1.71	24
03/15/13	24		0.417	29	0.196	24	0.189	29	91.74	29	1.93	24
03/16/13	24		0.419	29	0.205	24	0.190	29	91.72	29	1.87	24
03/17/13	24		0.419	29	0.200	24	0.190	29	91.72	29	2.04	24
03/18/13	24		0.420	29	0.192	24	0.189	29	91.78	29	1.74	24
03/19/13	24		0.420	29	0.194	24	0.188	29	91.82	29	1.76	24

Date	Operating Hours	NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS	30-Day		24-Hr		30-Day		30-Day		SO2	
		lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
03/20/13	24	0.421	29	0.167	24	0.187	29	91.84	29	1.62	24
03/21/13	24	0.422	29	0.194	24	0.186	29	91.88	29	1.80	24
03/22/13	24	0.422	29	0.183	24	0.185	29	91.91	29	1.88	24
03/23/13	24	0.423	30	0.236	24	0.187	30	91.82	30	1.99	24
03/24/13	24	0.422	30	0.111	24	0.185	30	91.90	30	1.22	24
03/25/13	24	0.422	30	0.135	24	0.183	30	91.99	30	1.48	24
03/26/13	24	0.421	30	0.187	24	0.184	30	91.95	30	1.77	24
03/27/13	24	0.421	30	0.178	24	0.185	30	91.88	30	1.72	24
03/28/13	24	0.421	30	0.182	24	0.184	30	91.92	30	1.82	24
03/29/13	24	0.422	30	0.158	24	0.184	30	91.93	30	1.71	24
03/30/13	24	0.422	30	0.184	24	0.184	30	91.92	30	1.76	24
03/31/13	24	0.422	30	0.208	24	0.185	30	91.89	30	1.93	24

CEMS Daily Averages - 01/01/13 To 03/31/13

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Period: 01/01/13 00:00:00 To 03/31/13 23:59:59; Records = 90

Date	Operating Hours		NOx		SO2		SO2		SO2	
	CEMS		30-Day		24-Hr		30-Day		30-Day	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld
01/01/13	24		0.428	30	0.186	24	0.202	30	91.14	30
01/02/13	24		0.429	30	0.147	24	0.200	30	91.18	30
01/03/13	24		0.429	30	0.189	24	0.199	30	91.21	30
01/04/13	24		0.429	30	0.200	24	0.198	30	91.22	30
01/05/13	24		0.429	30	0.157	24	0.196	30	91.34	30
01/06/13	24		0.429	30	0.198	24	0.197	30	91.31	30
01/07/13	24		0.428	30	0.187	24	0.197	30	91.30	30
01/08/13	24		0.428	30	0.170	24	0.195	30	91.41	30
01/09/13	24		0.427	30	0.200	24	0.194	30	91.44	30
01/10/13	24		0.427	30	0.181	24	0.193	30	91.47	30
01/11/13	24		0.426	30	0.179	24	0.193	30	91.47	30
01/12/13	24		0.424	30	0.179	24	0.193	30	91.45	30
01/13/13	24		0.424	30	0.155	24	0.192	30	91.48	30
01/14/13	24		0.424	30	0.191	24	0.193	30	91.44	30
01/15/13	24		0.424	30	0.164	24	0.192	30	91.45	30
01/16/13	24		0.424	30	0.169	24	0.192	30	91.46	30
01/17/13	24		0.425	30	0.195	24	0.192	30	91.45	30
01/18/13	24		0.424	30	0.180	24	0.191	30	91.47	30
01/19/13	24		0.424	30	0.147	24	0.189	30	91.55	30
01/20/13	24		0.425	30	0.179	24	0.189	30	91.52	30
01/21/13	24		0.426	30	0.188	24	0.189	30	91.51	30
01/22/13	24		0.424	30	0.188	24	0.188	30	91.59	30
01/23/13	24		0.422	30	0.180	24	0.187	30	91.65	30
01/24/13	24		0.420	30	0.191	24	0.186	30	91.66	30
01/25/13	24		0.419	30	0.191	24	0.185	30	91.71	30
01/26/13	24		0.418	30	0.171	24	0.184	30	91.74	30
01/27/13	24		0.417	30	0.139	24	0.181	30	91.86	30
01/28/13	24		0.418	30	0.197	24	0.180	30	91.89	30
01/29/13	24		0.418	30	0.185	24	0.181	30	91.90	30
01/30/13	24		0.417	30	0.178	24	0.180	30	91.95	30
01/31/13	24		0.415	30	0.182	24	0.180	30	91.96	30
02/01/13	24		0.414	30	0.172	24	0.181	30	91.94	30
02/02/13	24		0.414	30	0.173	24	0.180	30	91.97	30
02/03/13	24		0.413	30	0.180	24	0.179	30	92.00	30
02/04/13	24		0.413	30	0.181	24	0.180	30	91.98	30
02/05/13	24		0.414	30	0.186	24	0.180	30	92.01	30
02/06/13	24		0.413	30	0.164	24	0.179	30	92.05	30

Date	Operating Hours		NOx		SO2		SO2		SO2		Vld
	CEMS		30-Day		24-Hr		30-Day		30-Day		
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	
02/07/13	24		0.412	30	0.148	24	0.178	30	92.09	30	0.00
02/08/13	24		0.411	30	0.188	24	0.178	30	92.12	30	0.00
02/09/13	24		0.410	30	0.184	24	0.178	30	92.13	30	0.00
02/10/13	24		0.409	30	0.143	24	0.177	30	92.21	30	0.00
02/11/13	24		0.408	30	0.145	24	0.176	30	92.28	30	0.00
02/12/13	24		0.407	30	0.138	24	0.175	30	92.34	30	0.00
02/13/13	24		0.405	30	0.128	24	0.173	30	92.46	30	0.00
02/14/13	24		0.402	30	0.154	24	0.173	30	92.50	30	0.00
02/15/13	24		0.401	30	0.161	24	0.172	30	92.54	30	0.00
02/16/13	24		0.400	30	0.170	24	0.172	30	92.58	30	0.00
02/17/13	24		0.399	30	0.152	24	0.171	30	92.62	30	0.00
02/18/13	24		0.397	30	0.152	24	0.171	30	92.62	30	0.00
02/19/13	24		0.395	30	0.172	24	0.171	30	92.66	30	0.00
02/20/13	24		0.393	30	0.161	19	0.169	30	92.69	30	0.00
02/21/13	24		0.393	30	0.172	24	0.168	30	92.69	30	0.00
02/22/13	24		0.393	30	0.135	24	0.166	30	92.74	30	0.00
02/23/13	24		0.393	30	0.150	24	0.165	30	92.79	30	0.00
02/24/13	24		0.393	30	0.144	20	0.164	30	92.85	30	0.00
02/25/13	24		0.392	30	0.115	24	0.162	30	92.93	30	0.00
02/26/13	24		0.392	30	0.128	24	0.161	30	92.94	30	0.00
02/27/13	24		0.392	30	0.150	24	0.160	30	92.99	30	0.00
02/28/13	24		0.392	30	0.140	24	0.158	30	93.03	30	0.00
03/01/13	24		0.392	30	0.146	24	0.157	30	93.06	30	0.00
03/02/13	24		0.393	30	0.167	24	0.157	30	93.06	30	0.00
03/03/13	24		0.394	30	0.193	24	0.157	30	93.03	30	0.00
03/04/13	24		0.395	30	0.179	24	0.158	30	93.02	30	0.00
03/05/13	24		0.395	30	0.201	24	0.158	30	92.99	30	0.00
03/06/13	24		0.395	30	0.174	24	0.158	30	93.00	30	0.00
03/07/13	24		0.395	30	0.155	24	0.157	30	93.02	30	0.00
03/08/13	24		0.396	30	0.206	24	0.158	30	92.95	30	0.00
03/09/13	24		0.397	30	0.180	24	0.160	30	92.90	30	0.00
03/10/13	24		0.398	30	0.149	24	0.158	30	92.94	30	0.00
03/11/13	24		0.398	30	0.201	24	0.159	30	92.90	30	0.00
03/12/13	24		0.399	30	0.179	24	0.160	30	92.85	30	0.00
03/13/13	24		0.400	30	0.173	24	0.161	30	92.79	30	0.00
03/14/13	24		0.402	30	0.163	24	0.162	30	92.75	30	0.00
03/15/13	24		0.403	30	0.193	24	0.164	30	92.64	30	0.00
03/16/13	24		0.405	30	0.174	24	0.165	30	92.61	30	0.00
03/17/13	24		0.406	30	0.208	24	0.166	30	92.52	30	0.00
03/18/13	24		0.406	30	0.159	24	0.166	30	92.54	30	0.00
03/19/13	24		0.406	30	0.158	24	0.166	30	92.53	30	0.00

Date	Operating Hours	NOx		SO2		SO2		SO2		
	CEMS	30-Day		24-Hr		30-Day		30-Day		
		lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	
03/20/13	24	0.408	30	0.155	24	0.166	30	92.52	30	0.00
03/21/13	24	0.409	30	0.165	24	0.166	30	92.52	30	0.00
03/22/13	24	0.409	30	0.190	24	0.167	30	92.47	30	0.00
03/23/13	24	0.410	30	0.157	24	0.166	30	92.48	30	0.00
03/24/13	24	0.410	30	0.133	24	0.166	30	92.48	30	0.00
03/25/13	24	0.411	30	0.160	24	0.167	30	92.45	30	0.00
03/26/13	24	0.411	30	0.166	24	0.167	30	92.41	30	0.00
03/27/13	24	0.412	30	0.164	24	0.169	30	92.32	30	0.00
03/28/13	24	0.412	30	0.178	24	0.171	30	92.23	30	0.00
03/29/13	24	0.412	30	0.183	24	0.172	30	92.19	30	0.00
03/30/13	24	0.412	30	0.166	24	0.173	30	92.15	30	0.00
03/31/13	24	0.411	30	0.182	24	0.174	30	92.11	30	0.00

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler1 Opacity

Emission Limitation: 10

Reporting Period Dates: From 1/01/2013 To 3/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler1

Date of Last CEMS Certification or Audit: 08/27/2012

Total Source Operating Time in Reporting Period: 21600 periods

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable(1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	20	0.09
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	20	0.09

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	% Excess Emissions(2)	
	Duration	
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	1	0.00
2. Total duration of excess emissions.....	1	0.00

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice
NAME

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TITLE

4-30-13
DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1NOxlb/mmBtu30-Day

EmissionLimitation: 0.60

ReportingPeriodDates: From1/01/2013To3/31/2013

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/28/2012

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary

TotalCEMSDowntimes
includingexemptions

	%	
	Duration	Unavailable(1)
1.CEMSDowntimeinreportingperioddueto:		
1.MonitorEquipmentMalfunctions	27	1.25
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	27	1.25

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

$\%Unavailable = \text{CEMSDowntimeduringSourceOperatingTime} / \text{SourceOperatingTime} \times 100$

EmissionDataSummary

1.Durationofexcessemissionsin reportingperioddueto:	%Excess	
	Duration	Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

$\%ExcessEmissions = \text{TotalDurationofExcessEmissions} / \text{SourceOperatingTime} \times 100$

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefmedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

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4-30-13
DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1SO2lb/mmBtu24-Hr

EmissionLimitation: 0.7

ReportingPeriodDates: From1/01/2013To3/31/2013

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/28/2012

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary

TotalCEMSDowntimes
includingexemptions

	%	
	Duration	Unavailable(1)
1.CEMSDowntimeinreportingperioddueto:		
1.MonitorEquipmentMalfunctions	27	1.25
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	27	1.25

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

$\%Unavailable = \text{CEMSDowntimeduringSourceOperatingTime} / \text{SourceOperatingTime} \times 100$

EmissionDataSummary

1.Durationofexcessemissionsin reportingperioddueto:	%Excess	
	Duration	Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

$\%ExcessEmissions = \text{TotalDurationofExcessEmissions} / \text{SourceOperatingTime} \times 100$

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4-30-13
DATE

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler1 SO₂ lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 1/01/2013 To 3/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler1

Date of Last CEMS Certification or Audit: 08/28/2012

Total Source Operating Time in Reporting Period: 2160 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	%	
	Duration	Unavailable(1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	27	1.25
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	27	1.25

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	% Excess	
	Duration	Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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4-30-13
DATE

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler1 SO2 Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 1/01/2013 To 3/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler1

Date of Last CEMS Certification or Audit: 08/28/2012

Total Source Operating Time in Reporting Period: 2160 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable(1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	28	1.30
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	1	0.05
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	29	1.34

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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4-30-13
DATE

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boilers Total SO₂ Tons

Emission Limitation: 6.45

Reporting Period Dates: From 1/01/2013 To 3/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boilers

Date of Last CEMS Certification or Audit: 08/30/2012

Total Source Operating Time in Reporting Period: 2160 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	%	
1. CEMS downtime in reporting period due to:	Duration	Unavailable(1)
1. Monitor Equipment Malfunctions	31	1.44
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	4	0.19
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	35	1.62

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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4-30-13
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Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler1 COlb/mmBtu24-Hr

Emission Limitation: 0.3

Reporting Period Dates: From 1/01/2013 To 3/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler1

Date of Last CEMS Certification or Audit: 08/28/2012

Total Source Operating Time in Reporting Period: 2160 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

%

1. CEMS downtime in reporting period due to:	Duration	Unavailable(1)
1. Monitor Equipment Malfunctions	25	1.16
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	2	0.09
4. Other Known Causes	3	0.14
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	30	1.39

Durations in hours

(1) % Unavailable is calculated by the following formula:

$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$

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4-30-13
DATE

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler1 COlb/hr24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 1/01/2013 To 3/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler1

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2160 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	%	
1. CEMS downtime in reporting period due to:	Duration	Unavailable(1)
1. Monitor Equipment Malfunctions	17	0.79
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	6	0.28
4. Other Known Causes	3	0.14
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	26	1.20

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formula:

$$\% \text{Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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4-30-13
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Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler2 Opacity

Emission Limitation: 10

Reporting Period Dates: From 1/01/2013 To 3/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler2

Date of Last CEMS Certification or Audit: 08/27/2012

Total Source Operating Time in Reporting Period: 21600 periods

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	%	
	Duration	Unavailable(1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	4	0.02
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	4	0.02

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	% Excess	
	Duration	Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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4-30-13
DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2NOxlb/mmBtu30-Day

EmissionLimitation: 0.60

ReportingPeriodDates: From1/01/2013To3/31/2013

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/29/2012

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary

TotalCEMSDowntimes
includingexemptions

1.CEMSDowntimeinreportingperioddueto:	% Unavailable(1)	
	Duration	
1.MonitorEquipmentMalfunctions	4	0.19
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	4	0.19
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	8	0.37

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

$\% \text{Unavailable} = \text{CEMSDowntimeduringSourceOperatingTime} / \text{SourceOperatingTime} \times 100$

EmissionDataSummary

1.Durationofexcessemissionsin reportingperioddueto:	%Excess Emissions(2)	
	Duration	
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

$\% \text{ExcessEmissions} = \text{TotalDurationofExcessEmissions} / \text{SourceOperatingTime} \times 100$

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefmedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

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4-30-13
DATE

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler2 SO2 lb/mmBtu 24-Hr

Emission Limitation: 0.7

Reporting Period Dates: From 1/01/2013 To 3/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler2

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2160 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable(1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	4	0.19
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	4	0.19
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	8	0.37

Durations in hours

(1) % Unavailable is calculated by the following formula:

$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$

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4-30-13
DATE

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO₂ lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 1/01/2013 To 3/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2160 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	%
		Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	4	0.19
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	4	0.19
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	8	0.37

Durations in hours

(1) % Unavailable is calculated by the following formula:

$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess
		Emissions (2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$

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4-30-13
DATE

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO₂ Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 1/01/2013 To 3/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2160 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	%
		Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	4	0.19
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	4	0.19
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	8	0.37

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions (2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formula:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice

NAME

Jason M. Prentice

SIGNATURE

Env. Planner

TITLE

4-30-13

DATE

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler2 CO lb/mmBtu 24-Hr

Emission Limitation: 0.3

Reporting Period Dates: From 1/01/2013 To 3/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler2

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2160 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable(1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	4	0.19
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	4	0.19
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	8	0.37

Durations in hours

(1) % Unavailable is calculated by the following formula:

$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	% Excess Emissions(2)	
	Duration	
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formula:

$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice
NAME

Jason M. Prentice
SIGNATURE

Env. Planner
TITLE

4-30-13
DATE

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler2 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 1/01/2013 To 3/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler2

Date of Last CEMS Certification or Audit: 08/30/2012

Total Source Operating Time in Reporting Period: 2160 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable(1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	4	0.19
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	4	0.19

Durations in hours

(1) % Unavailable is calculated by the following formula:

$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formula:

$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice
NAME

Jason M. Prentice
SIGNATURE

Env. Planner
TITLE

4-30-13
DATE

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Opacity

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/25/13 11:24:33	02/25/13 12:53:36	15	15=Preventative Maintenance	3=Quality Assurance Calibrations	
2	02/25/13 13:12:37	02/25/13 13:41:43	5	15=Preventative Maintenance	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 20 Periods , Data Availability for this Reporting Period = 99.91 %

Total Operating Time in the Reporting Period = 21600 Periods

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: NOx CEMS

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/02/13 05:00:40	02/02/13 14:59:37	10	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Plugged "T" assembly and in-line filter on stack sample
2	02/21/13 05:00:36	02/21/13 21:59:37	17	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Replaced Sample line on probe

Total Downtime in the Reporting Period = 27 hours , Data Availability for this Reporting Period = 98.75 %

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 CEMS

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/02/13 05:00:40	02/02/13 14:59:37	10	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Plugged "T" assembly and in-line filter on stack sample
2	02/21/13 05:00:36	02/21/13 21:59:37	17	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Changed pump in SO2 analyzer

Total Downtime in the Reporting Period = 27 hours , Data Availability for this Reporting Period = 98.75 %

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002434

Downtime Report

Facility Name: T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** CO #/MMBTU CEMS**Data in the Reporting Period: 01/01/13 to 03/31/13**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/02/13 05:00:40	02/02/13 12:59:44	8	12=Excess Drift Ancillary Analyzer	1=Monitor Equip Malfunctions	Plugged "T" assembly and in-line filter on stack sample
2	02/02/13 14:00:37	02/02/13 14:59:37	1	21=Blowback	3=Quality Assurance Calibrations	
3	02/21/13 05:00:36	02/21/13 21:59:37	17	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Replaced kicker assembly and fuses in CO analyzer.
4	02/23/13 16:00:39	02/23/13 16:59:39	1	14=Recalibration	3=Quality Assurance Calibrations	
5	02/24/13 06:00:37	02/24/13 08:59:35	3	20=Corrective Maintenance	4=Other Known Causes	

Total Downtime in the Reporting Period = 30 hours , Data Availability for this Reporting Period = 98.61 %**Total Operating Time in the Reporting Period = 2160 hours**

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO #/HOUR CEMS

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/02/13 13:00:43	02/02/13 15:59:36	3	98=Automatic Calibration	3=Quality Assurance Calibrations	
2	02/21/13 05:00:36	02/21/13 21:59:37	17	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Replaced kicker assembly and fuses in CO analyzer.
3	02/23/13 16:00:39	02/23/13 17:59:38	2	14=Recalibration	3=Quality Assurance Calibrations	
4	02/24/13 06:00:37	02/24/13 08:59:35	3	20=Corrective Maintenance	4=Other Known Causes	
5	02/26/13 15:00:41	02/26/13 15:59:41	1	98=Automatic Calibration	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 26 hours , Data Availability for this Reporting Period = 98.80 %

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO2 Analyzer

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/02/13 05:00:40	02/02/13 14:59:37	10	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Plugged "T" assembly and in-line filter on stack sample
2	02/21/13 05:00:36	02/21/13 21:59:37	17	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Replaced sample line on probe

Total Downtime in the Reporting Period = 27 hours , Data Availability for this Reporting Period = 98.75 %

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002437

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Flow Analyzer

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002438

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Inlet SO2 CEMS

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/25/13 03:00:33	02/25/13 03:59:33	1	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Changed flow sensor, diaphragm,tubing and capillary
2	02/25/13 08:00:35	02/25/13 08:59:35	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.91 %

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Inlet CO2 Analyzer

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/25/13 03:00:33	02/25/13 03:59:33	1	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Changed flow sensor, diaphragm, tubing and capillary
2	02/25/13 08:00:35	02/25/13 08:59:35	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.91 %

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002440

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Opacity

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/25/13 12:54:38	02/25/13 13:17:36	4	15=Preventative Maintenance	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 4 Periods , Data Availability for this Reporting Period = 99.98 %

Total Operating Time in the Reporting Period = 21600 Periods

TESFiler0002441

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: NOx CEMS

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/20/13 06:00:34	02/20/13 09:59:35	4	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Changed cal gas cylinder (moisture).
2	02/24/13 10:00:36	02/24/13 13:59:37	4	15=Preventative Maintenance	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 8 hours , Data Availability for this Reporting Period = 99.63 %

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002442

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 CEMS

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/20/13 06:00:34	02/20/13 09:59:35	4	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Changed cal gas cylinder (moisture)
2	02/24/13 10:00:36	02/24/13 13:59:37	4	15=Preventative Maintenance	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 8 hours , Data Availability for this Reporting Period = 99.63 %

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO #/MMBTU CEMS

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/20/13 06:00:34	02/20/13 09:59:35	4	12=Excess Drift Ancillary Analyzer	1=Monitor Equip Malfunctions	Changed cal gas cylinder (moisture)
2	02/24/13 10:00:36	02/24/13 13:59:37	4	15=Preventative Maintenance	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 8 hours , Data Availability for this Reporting Period = 99.63 %

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler2

Parameter: CO #/HOUR CEMS

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/24/13 10:00:36	02/24/13 13:59:37	4	15=Preventative Maintenance	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 4 hours , Data Availability for this Reporting Period = 99.81 %

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO2 Analyzer

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/20/13 06:00:34	02/20/13 09:59:35	4	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Changed cal gas cylinder (moisture)
2	02/24/13 10:00:36	02/24/13 13:59:37	4	15=Preventative Maintenance	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 8 hours , Data Availability for this Reporting Period = 99.63 %

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Flow Analyzer

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Inlet SO2 CEMS

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002448

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Inlet CO2 Analyzer

Data in the Reporting Period: 01/01/13 to 03/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002449

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Opacity

Limit: 10

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	03/23/13 22:48:38	03/23/13 22:53:38	1	59	Unknown Causes		

Total Duration in the Reporting Period = 1 Periods , Percentage of Operating Time above Excess Emission Limit = 0.00 %

Total Operating Time in the Reporting Period = 21600 Periods

TESFiler0002450

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: NOx lb/mmBtu 30-Day

Limit: 0.60

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002451

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 lb/mmBtu Daily Ave.

0 . 7

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002452

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 lb/mmBtu 30-Day

Limit: 0.5

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002453

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 Reduction 30-Day

Limit: 90

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002454

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boilers

Parameter: Total SO2 Tons

Limit: 6.45

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002455

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO lb/mmBtu 24-Hr Roll

Limit: 0.3

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002456

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO lb/hr 24-Hr Roll

Limit: 115.2

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002457

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Opacity

Limit: 10

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration Periods	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 Periods

Total Operating Time in the Reporting Period = 21600 Periods

TESFiler0002458

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: NOx lb/mmBtu 30-Day

Limit: 0.60

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002459

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 lb/mmBtu Daily Ave.

0.7

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002460

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 lb/mmBtu 30-Day

Limit: 0.5

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 Reduction 30-Day

Limit: 90

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002462

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO lb/mmBtu 24-Hr Roll

Limit: 0.3

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002463

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO lb/hr 24-Hr Roll

Limit: 115.2

Data in the Reporting Period: 01/01/13 to 03/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

TESFiler0002464

Linearity Test Report - 2013Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i

Serial Number: 0623017966

Low-Level Calibration Gas
(20-30% of Span)
(100.00 ppm - 150.00 ppm)

Concentration: 124.00
Cylinder No.: CC27079
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

Mid-Level Calibration Gas
(50-60% of Span)
(250.00 ppm - 300.00 ppm)

Concentration: 275.00
Cylinder No.: CC214741
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

High-Level Calibration Gas
(80-100% of Span)
(400.00 ppm - 500.00 ppm)

Concentration: 420.00
Cylinder No.: XC032287B
Expiration Date: 02/04/21

Vendor ID: B62013
Gas Type Code: SNCC

Test Date: 02/26/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	08:39:40	126.10	08:44:40	276.60	08:49:46	417.90
Run 2	09:08:41	126.40	09:13:41	276.40	09:18:41	417.90
Run 3	09:38:30	126.10	09:43:37	276.60	09:48:45	417.40
Avg. Monitor Response		126.200		276.533		417.733
Linearity Error		1.8		0.6		0.5
Absolute Difference		2.2		1.5		2.3
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: _____

Technician/Service Representative

Linearity Test Report - 2013Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 SO2 High Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717877

Low-Level Calibration Gas
(20-30% of Span)
(400.00 ppm - 600.00 ppm)

Concentration: 498.10
Cylinder No.: XC009831B
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SC2

Mid-Level Calibration Gas
(50-60% of Span)
(1000.0 ppm - 1200.0 ppm)

Concentration: 1099.0
Cylinder No.: CC151205
Expiration Date: 11/16/14

Vendor ID: B62011
Gas Type Code: SC2

High-Level Calibration Gas
(80-100% of Span)
(1600.0 ppm - 2000.0 ppm)

Concentration: 1698.0
Cylinder No.: CC406491
Expiration Date: 02/13/21

Vendor ID: B62013
Gas Type Code: SC2

Test Date: 02/26/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	10:22:43	501.60	10:27:43	1104.8	10:32:43	1700.0
Run 2	10:53:39	503.60	10:58:40	1100.0	11:03:39	1680.8
Run 3	11:22:38	501.20	11:27:38	1098.2	11:32:44	1680.2
Avg. Monitor Response		502.133		1101.00		1687.00
Linearity Error		0.8		0.2		0.6
Absolute Difference		4.0		2.0		11.0
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

David Duby

Print Name: _____

David Duby
Technician/Service Representative

Linearity Test Report - 2013Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717877

Low-Level Calibration Gas
(20-30% of Span)
(40.000 ppm - 60.000 ppm)

Concentration: 49.380
Cylinder No.: CC27079
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

Mid-Level Calibration Gas
(50-60% of Span)
(100.00 ppm - 120.00 ppm)

Concentration: 108.30
Cylinder No.: CC214741
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

High-Level Calibration Gas
(80-100% of Span)
(160.00 ppm - 200.00 ppm)

Concentration: 170.90
Cylinder No.: XC032287B
Expiration Date: 02/04/21

Vendor ID: B62013
Gas Type Code: SNCC

Test Date: 02/26/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	08:39:40	51.300	08:44:40	108.20	08:49:46	167.00
Run 2	09:08:41	49.900	09:13:41	108.30	09:18:41	166.90
Run 3	09:38:30	50.100	09:43:37	107.40	09:48:45	167.70
Avg. Monitor Response		50.433		107.967		167.200
Linearity Error		2.1		0.3		2.2
Absolute Difference		1.1		0.3		3.7
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} | \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

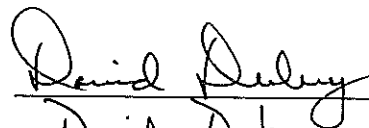
Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

David Duby
Technician/Service Representative

Linearity Test Report - 2013Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i

Serial Number: 0622717869

Low-Level Calibration Gas
(20-30% of Span)
(4.000 % - 6.000 %)

Concentration: 5.550
Cylinder No.: CC27079
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

Mid-Level Calibration Gas
(50-60% of Span)
(10.000 % - 12.000 %)

Concentration: 11.020
Cylinder No.: CC214741
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

High-Level Calibration Gas
(80-100% of Span)
(16.000 % - 20.000 %)

Concentration: 17.210
Cylinder No.: XC032287B
Expiration Date: 02/04/21

Vendor ID: B62013
Gas Type Code: SNCC

Test Date: 02/26/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	08:39:40	5.550	08:44:40	11.040	08:49:46	17.210
Run 2	09:08:41	5.560	09:13:41	11.040	09:18:41	17.230
Run 3	09:38:30	5.550	09:43:37	11.030	09:48:45	17.210
Avg. Monitor Response		5.553		11.037		17.217
Linearity Error		0.1		0.2		0.0
Absolute Difference		0.0		0.0		0.0
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: _____

Technician/Service Representative

CGA Test Report - 2013Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 Inlet SO2 Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717879

Low-Level Calibration Gas Concentration: 498.1
(20-30% of Span) Cylinder No.: XC009831B
(400.0 ppm - 600.0 ppm) Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 1099.0
(50-60% of Span) Cylinder No.: CC151205
(1000.0 ppm - 1200.0 ppm) Expiration Date: 11/16/14

Test Date: 02/26/13

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	12:23:30	500.8	12:29:36	1090.8
Run 2	12:43:35	499.8	12:49:41	1093.2
Run 3	13:04:38	500.8	13:10:36	1092.4
Avg. Monitor Response		500.5		1092.1
Calibration Error		0.5		-0.6
Absolute Difference		2.4		6.9
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature: David Duby / James Fanning
Print Name: David Duby / JAMES FANNING
Technician/Service Representative

CGA Test Report - 2013Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i

Serial Number: 0622717873

Low-Level Calibration Gas Concentration: 5.69
(5.00% - 8.00%) Cylinder No.: XC009831B
Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 11.05
(10.00% - 14.00%) Cylinder No.: CC151205
Expiration Date: 11/16/14

Test Date: 02/26/13

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	12:23:30	5.64	12:29:36	10.99
Run 2	12:43:35	5.67	12:49:41	10.90
Run 3	13:04:38	5.70	13:10:36	10.95
Avg. Monitor Response		5.67		10.95
Calibration Error		-0.4		-0.9
Absolute Difference		0.02		0.10
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

Print Name:

David Duby
James Fanning
David Duby JAMES FANNING
Technician/Service Representative

CGA Test Report - 2013Q1

Facility Name: TES Filer City Station

Location: Filer City, MI

Blr 1 CO High Audit Test Results

Analyzer Span: 3000.00 ppm

Mfr & Model: Thermo 48l

Serial Number: 0622717887

Low-Level Calibration Gas
(20-30% of Span)
(600.00 ppm - 900.00 ppm)

Concentration: 735.70
Cylinder No: XC009831B
Expiration Date: 11/16/13

Mid-Level Calibration Gas
(50-60% of Span)
(1500.00 ppm - 1800.00 ppm)

Concentration: 1639.00
Cylinder No: CC151205
Expiration Date: 11/16/14

Test Date:

2/26/13

Tester(s) James Fanning/Dave Duby


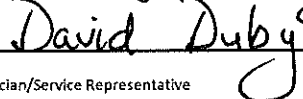
	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	10:23:35	703.4	10:28:34	1652.70
Run 2	10:53:39	730.3	10:58:32	1643.40
Run 3	11:22:38	734.0	11:27:46	1638.70
Avg. Monitor Response		722.6		1644.9
Absolute Difference		13.1		5.9
Calibration Error		1.79		0.36
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration} \times 100}{\text{Cal. Gas Concentration}}$$

I have personally performed the Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F Section 5.1.2 and attest that the recorded information on this document is true, accurate and complete.

Signature:

Print Name:



Technician/Service Representative

CGA Test Report - 2013Q1

Facility Name: TES Filer City Station

Location: Filer City, MI

Blr 1 CO Low Audit Test Results

Analyzer Span: 300.00 ppm

Mfr & Model: Thermo 48l

Serial Number: 0622717887

Low-Level Calibration Gas
(20-30% of Span)
(60.00 ppm - 90.00 ppm)

Concentration: 74.5
Cylinder No: CC27079
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

Mid-Level Calibration Gas
(50-60% of Span)
(150.00 ppm - 180.00 ppm)

Concentration: 164.0
Cylinder No: CC214741
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

Test Date: 2/26/13

Tester(s) James Fanning/Andy Knudsen

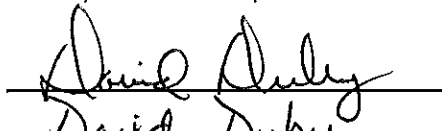
	Low		High	
	Time	Monitor Value	Time	Monitor Value
Run 1	08:39:40	74.8	08:44:40	163.9
Run 2	09:08:41	72.8	09:13:41	164.0
Run 3	09:38:30	77.3	09:43:37	164.1
Avg. Monitor Response		75.0		164.0
Absolute Difference		0.5		0.0
Calibration Error		0.63		0.00
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration} \times 100}{\text{Cal. Gas Concentration}}$$

I have personally performed the Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F Section 5.1.2 and attest that the recorded information on this document is true, accurate and complete.

Signature:

Print Name:


David Duby

Technician/Service Representative

Linearity Test Report - 2013Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i

Serial Number: 0623017967

Low-Level Calibration Gas
(20-30% of Span)
(100.00 ppm - 150.00 ppm)

Concentration: 124.00
Cylinder No.: CC27079
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

Mid-Level Calibration Gas
(50-60% of Span)
(250.00 ppm - 300.00 ppm)

Concentration: 275.00
Cylinder No.: CC214741
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

High-Level Calibration Gas
(80-100% of Span)
(400.00 ppm - 500.00 ppm)

Concentration: 420.00
Cylinder No.: XC032287B
Expiration Date: 02/04/21

Vendor ID: B62013
Gas Type Code: SNCC

Test Date: 02/26/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:26:36	127.10	12:31:35	276.00	12:36:44	419.30
Run 2	12:52:35	126.00	12:57:37	275.40	13:02:36	418.40
Run 3	13:22:36	126.60	13:27:38	278.00	13:32:37	419.20
Avg. Monitor Response		126.567		276.467		418.967
Linearity Error		2.1		0.5		0.2
Absolute Difference		2.6		1.5		1.0
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} | \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

David Duby

Print Name: _____

David Duby
Technician/Service Representative

Linearity Test Report - 2013Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 SO2 High Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717880

Low-Level Calibration Gas
(20-30% of Span)
(400.00 ppm - 600.00 ppm)

Concentration: 498.10
Cylinder No.: XC009831B
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SC2

Mid-Level Calibration Gas
(50-60% of Span)
(1000.0 ppm - 1200.0 ppm)

Concentration: 1099.0
Cylinder No.: CC151205
Expiration Date: 11/16/14

Vendor ID: B62011
Gas Type Code: SC2

High-Level Calibration Gas
(80-100% of Span)
(1600.0 ppm - 2000.0 ppm)

Concentration: 1698.0
Cylinder No.: CC406491
Expiration Date: 02/13/21

Vendor ID: B62013
Gas Type Code: SC2

Test Date: 02/26/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	13:48:37	505.40	13:53:37	1089.0	13:58:43	1697.0
Run 2	14:12:32	501.00	14:17:39	1108.6	14:22:39	1691.0
Run 3	14:38:36	500.40	14:43:38	1108.6	14:48:37	1695.2
Avg. Monitor Response		502.267		1102.07		1694.40
Linearity Error		0.8		0.3		0.2
Absolute Difference		4.2		3.1		3.6
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} | \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

David Duby

Print Name:

David Duby
Technician/Service Representative

Linearity Test Report - 2013Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717880

Low-Level Calibration Gas
(20-30% of Span)
(40.000 ppm - 60.000 ppm)

Concentration: 49.400
Cylinder No.: CC27079
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

Mid-Level Calibration Gas
(50-60% of Span)
(100.00 ppm - 120.00 ppm)

Concentration: 108.30
Cylinder No.: CC214741
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

High-Level Calibration Gas
(80-100% of Span)
(160.00 ppm - 200.00 ppm)

Concentration: 170.90
Cylinder No.: XC032287B
Expiration Date: 02/04/21

Vendor ID: B62013
Gas Type Code: SNCC

Test Date: 02/26/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:26:36	50.400	12:31:35	110.10	12:36:44	169.10
Run 2	12:52:35	50.900	12:57:37	110.80	13:02:36	168.00
Run 3	13:22:36	50.600	13:27:38	108.80	13:32:37	168.50
Avg. Monitor Response		50.633		109.900		168.533
Linearity Error		2.5		1.5		1.4
Absolute Difference		1.2		1.6		2.4
Test Status		Pass		Pass		Pass

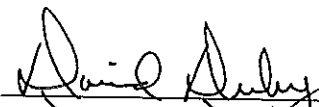
$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} | \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature:



Print Name:

David Duby
Technician/Service Representative

Linearity Test Report - 2013Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i

Serial Number: 0622717874

Low-Level Calibration Gas
(20-30% of Span)
(4.000 % - 6.000 %)

Concentration: 5.550
Cylinder No.: CC27079
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

Mid-Level Calibration Gas
(50-60% of Span)
(10.000 % - 12.000 %)

Concentration: 11.020
Cylinder No.: CC214741
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

High-Level Calibration Gas
(80-100% of Span)
(16.000 % - 20.000 %)

Concentration: 17.210
Cylinder No.: XC032287B
Expiration Date: 02/04/21

Vendor ID: B62013
Gas Type Code: SNCC

Test Date: 02/26/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:26:36	5.530	12:31:35	11.020	12:36:44	17.100
Run 2	12:52:35	5.530	12:57:37	10.970	13:02:36	17.060
Run 3	13:22:36	5.470	13:27:38	10.960	13:32:37	17.030
Avg. Monitor Response		5.510		10.983		17.063
Linearity Error		0.7		0.3		0.9
Absolute Difference		0.0		0.0		0.1
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} | \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

David Duby

Print Name: _____

David Duby

Technician/Service Representative

CGA Test Report - 2013Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 Inlet SO2 Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717883

Low-Level Calibration Gas Concentration: 498.1
(20-30% of Span) Cylinder No.: XC009831B
(400.0 ppm - 600.0 ppm) Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 1099.0
(50-60% of Span) Cylinder No.: CC151205
(1000.0 ppm - 1200.0 ppm) Expiration Date: 11/16/14

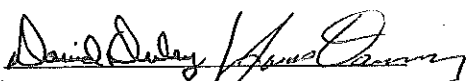
Test Date: 02/26/13

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	15:39:35	504.6	15:45:40	1101.6
Run 2	15:58:36	505.2	16:04:35	1102.4
Run 3	16:32:40	504.8	16:38:39	1099.4
Avg. Monitor Response		504.9		1101.1
Calibration Error		1.4		0.2
Absolute Difference		6.8		2.1
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature: 
Print Name: David Duby / JAMES FANNING
Technician/Service Representative

CGA Test Report - 2013Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i

Serial Number: 0622717875

Low-Level Calibration Gas Concentration: 5.69
(5.00% - 8.00%) Cylinder No.: XC009831B
Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 11.05
(10.00% - 14.00%) Cylinder No.: CC151205
Expiration Date: 11/16/14

Test Date: 02/26/13

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	15:39:35	5.77	15:45:40	11.08
Run 2	15:58:36	5.77	16:04:35	11.09
Run 3	16:32:40	5.74	16:38:39	11.05
Avg. Monitor Response		5.76		11.07
Calibration Error		1.2		0.2
Absolute Difference		0.07		0.02
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

Print Name:

Technician/Service Representative

CGA Test Report - 2013Q1

Facility Name: TES Filer City Station

Location: Filer City, MI

Blr 2 CO High Audit Test Results

Analyzer Span: 3000.00 ppm

Mfr & Model: Thermo 48I

Serial Number: 0622717888

Low-Level Calibration Gas
(20-30% of Span)
(600.00 ppm - 900.00 ppm)

Concentration: 735.70
Cylinder No: XC009831B
Expiration Date: 11/16/13

Mid-Level Calibration Gas
(50-60% of Span)
(1500.00 ppm - 1800.00 ppm)

Concentration: 1639.00
Cylinder No: CC151205
Expiration Date: 11/16/14

Test Date:

2/26/13

Tester(s) James Fanning/Dave Duby

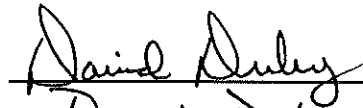
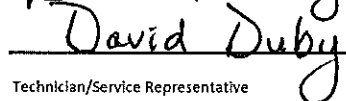
	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	13:48:44	732.9	13:53:37	1633.1
Run 2	14:11:31	739.1	14:16:40	1636.2
Run 3	14:37:38	738.1	14:42:31	1631.7
Avg. Monitor Response		736.7		1633.7
Absolute Difference		1.0		5.3
Calibration Error		0.14		0.33
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration} \times 100}{\text{Cal. Gas Concentration}}$$

I have personally performed the Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F Section 5.1.2 and attest that the recorded information on this document is true, accurate and complete.

Signature:

Print Name:



Technician/Service Representative

CGA Test Report - 2013Q1

Facility Name: TES Filer City Station

Location: Filer City, MI

Blr 2 CO Low Audit Test Results

Analyzer Span: 300.00 ppm

Mfr & Model: Thermo 48l

Serial Number: 0622717888

Low-Level Calibration Gas
(20-30% of Span)
(60.00 ppm - 90.00 ppm)

Concentration: 74.5
Cylinder No: CC27079
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

Mid-Level Calibration Gas
(50-60% of Span)
(150.00 ppm - 180.00 ppm)

Concentration: 164.0
Cylinder No: CC214741
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

Test Date: 2/26/13

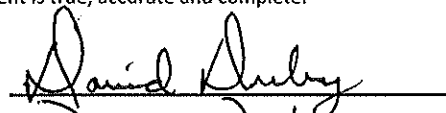
Tester(s) James Fanning/Dave Duby

	Low		High	
	Time	Monitor Value	Time	Monitor Value
Run 1	12:26:36	74.4	12:31:35	162.4
Run 2	12:52:35	74.9	12:57:37	164.7
Run 3	13:22:36	73.6	13:27:38	163.5
Avg. Monitor Response		74.3		163.5
Absolute Difference		0.2		0.5
Calibration Error		0.27		0.28
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration} \times 100}{\text{Cal. Gas Concentration}}$$

I have personally performed the Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F Section 5.1.2 and attest that the recorded information on this document is true, accurate and complete.

Signature:



Print Name:

David Duby

Technician/Service Representative

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer: LANSING
Part Number: E05NI94E15A0008
Cylinder Number: CC27079
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62011
Reference Number: 32-400026874-1
Cylinder Volume: 147 Cu.Ft.
Cylinder Pressure: 2015 PSIG
Valve Outlet: 660
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	50.00 PPM	49.38 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	75.00 PPM	74.49 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	125.0 PPM	124.0 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	5.600 %	5.549 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

124.1 PPM

For Reference Only

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	0906006	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	09060503	CC280417	98.86PPM CARBON MONOXIDE/NITROGEN	Feb 01, 2013
NTRM	11060216	CC281048	49.07PPM SULFUR DIOXIDE/NITROGEN	May 13, 2017
NTRM	11060139	CC332059	248.4PPM NITRIC OXIDE/NITROGEN	Jan 11, 2017

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 64, 10% CO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 100ppmFS CO/N2, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 64, 250ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011
E/N 64, 100ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request :

Notes:

A. F. Muhammad

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Airgas Great Lakes
2009 Bellair Ave.
Royal Oak, MI 48067-8020
www.airgas.com

Customer: LANSING
Part Number: E05NI88E16A0016
Cylinder Number: CC214741
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62011
Reference Number: 32-400026873-1
Cylinder Volume: 151 Cu.Ft.
Cylinder Pressure: 2015 PSIG
Valve Outlet: 660
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	110.0 PPM	108.3 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	165.0 PPM	164.0 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	275.0 PPM	275.0 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.02 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

275.0 PPM

For Reference Only

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	08060311	CC254043	250.0PPM CARBON MONOXIDE/NITROGEN	May 16, 2012
NTRM	08061635	CC255794	247.0PPM SULFUR DIOXIDE/NITROGEN	Oct 16, 2012
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	10060421	CC268177	495.6PPM NITRIC OXIDE/NITROGEN	Feb 01, 2016

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO ₂ , Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 250ppmFS CO, Siemens	Nondispersive Infrared (NDIR)	Nov 15, 2011
E/N 54, 1000 ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011
E/N 54, 1000ppmFS SO ₂ , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:



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Airgas Great Lakes
2000 Bellair Ave.
Royal Oak, MI 48067-6020
www.airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer: LANSING
Part Number: E04NI94E15A0013
Cylinder Number: XC009831B
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62011

Reference Number: 32-400026870-1
Cylinder Volume: 147 Cu.Ft.
Cylinder Pressure: 2015 PSIG
Valve Outlet: 660
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

ANALYTICAL RESULTS				
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	500.0 PPM	498.1 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	750.0 PPM	735.7 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	5.500 %	5.692 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS				
Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	9060806	CC262087	0.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	09060421	CC280588	501.3PPM CARBON MONOXIDE/NITROGEN	Feb 01, 2013
NTRM	09061013	CC300405	478.5PPM SULFUR DIOXIDE/NITROGEN	May 16, 2016

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 10% CO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 6000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 1000ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

A. F. Muhammad
Approved for Release



IN Service 5-23-12

Airgas Great Lakes
2009 Bellaire Ave.
Royal Oak, MI 48087-8020
www.airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer: LANSING
Part Number: E04NI88E15A1FJ0
Cylinder Number: CC151205
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62011
Reference Number: 32-400026871-1
Cylinder Volume: 151 Cu.Ft.
Cylinder Pressure: 2016 PSIG
Valve Outlet: 660
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig. i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	1100 PPM	1099 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	1650 PPM	1639 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.05 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	0712609	CC239950	2478PPM SULFUR DIOXIDE/NITROGEN	Mar 23, 2017
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	020502	SG9161128BAL	1488PPM CARBON MONOXIDE/NITROGEN	May 15, 2012

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO ₂ , Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 5000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 4800ppmFS SO ₂ , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

A. F. Muhammad

Approved for Release

Airgas USA, LLC
2009 Bellaire Ave.
Royal Oak, MI 48067-8020
248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number:	E04NI82E15A3LD7	Reference Number:	32-400142503-1
Cylinder Number:	CC406491	Cylinder Volume:	154.8 Cubic Feet
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62013	Valve Outlet:	660
Gas Code:	CO,CO2,SO2	Analysis Date:	Feb 13, 2013

Expiration Date: Feb 13, 2021

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	1700 PPM	1698 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	2550 PPM	2537 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	17.00 %	17.10 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	97040304	CC66837	2349 PPM SULFUR DIOXIDE/NITROGEN	Oct 05, 2017
NTRM	12060739	CC356228	2498 PPM CARBON MONOXIDE/NITROGEN	Dec 21, 2017
NTRM	12061523	CC354781	19.87 % CARBON DIOXIDE/NITROGEN	Jan 27, 2018

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Jan 24, 2013
E/N 173, 5000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Feb 05, 2013
E/N 54, 4800ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Jan 24, 2013

Triad Data Available Upon Request

Notes:

Approved for Release

Airgas USA, LLC
2009 Bellaire Ave.
Royal Oak, MI 48067-8020
248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer:	TES FILER CITY STATION	Reference Number:	32-400142166-1
Part Number:	E05NI82E15A0001	Cylinder Volume:	154.6 CF
Cylinder Number:	XC032287B	Cylinder Pressure:	2015 PSIG
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Valve Outlet:	660
PGVP Number:	B62013	Analysis Date:	Feb 04, 2013
Gas Code:	CO,CO2,NO,SO2		

Expiration Date: Feb 04, 2021

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	170.0 PPM	170.9 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	255.0 PPM	254.6 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	425.0 PPM	420.0 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	17.00 %	17.21 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

420.0 PPM

For Reference Only

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	11060827	CC338645	241.0 PPM SULFUR DIOXIDE/NITROGEN	May 13, 2017
NTRM	126062428	CC366883	487.1 PPM CARBON MONOXIDE/NITROGEN	Jun 22, 2018
NTRM	12061047	CC359547	500.7 PPM NITRIC OXIDE/NITROGEN	Feb 16, 2018
NTRM	12061523	CC354781	19.87 % CARBON DIOXIDE/NITROGEN	Jan 27, 2018

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Jan 24, 2013
E/N 173, 1000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Dec 28, 2012
E/N 54, 1000 ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Jan 25, 2013
E/N 54, 250ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Jan 24, 2013

Triad Data Available Upon Request

T.E.S. FILER CITY STATION

July 29, 2013

Mr. Shane Nixon
Michigan Department of Environmental Quality
Air Quality Division
120 W. Chapin Street
Cadillac, MI 49601-2158

SUBJECT: SECOND QUARTER 2013 EMISSIONS MONITORING REPORT

Dear Mr. Nixon:

Enclosed is the Second Quarter 2013 emissions monitoring report for Boilers No. 1 and No. 2 at the T.E.S. Filer City Station (Renewable Operating Permit No. ROP MI-ROP-N1685-2008b). The report includes all information required under Federal Standards of Performance for New Stationary Sources (40 CFR 60, Subparts A, Da, and Appendix F).

This quarterly report contains the Excess Emissions Reports (EERs) and Summary Reports for Boilers No. 1 and No. 2. The report also includes the results of linearity tests conducted in accordance with 40 CFR Part 75, Appendices A and B (all outlet CEMS other than CO), and cylinder gas audits (CGAs) conducted in accordance with 40 CFR Part 60, Appendix F (inlet CEMS and outlet CO CEMS). The associated Certificates of Analysis for the calibration gases used in the linearity tests and CGAs are also included within this quarterly report.

In accordance with Section 4.7.2 of the C/D Waste Wood Monitoring Plan dated September 20, 2012, a quarterly report detailing the quantities and sampling results for C/D wood waste will only be submitted if such materials are received within the calendar quarter. No such materials were received during the 2nd quarter 2013, so this quarterly report does not contain any information on C/D waste wood shipments.

It should be noted that the enclosed excess emissions report does not reflect a Unit 1 exceedance of the daily average SO₂ emission limit of 0.7 lb/mmBtu for 04/11/2013. While the facility had previously provided prompt (i.e., phone message) and written notification of such exceedance, it has since been discovered that the gaseous CEMS averages for Hour 23:00 on 04/11/2013 (the only operating hour on this date) were not valid due to insufficient 1-minute data within the clock hour. Insufficient 1-minute data was the result of calibration error tests having been conducted within the clock hour, coupled with a partial operating hour in which the unit was only online for 41 minutes.

Please contact me at (517) 788-1467 or Mr. Richard Brown of TES Filer City Station at (231) 723-6573, Extension 103, if you have any questions or require further information concerning the contents of this quarterly report.

Sincerely,



Richard Brown
Environmental, Health & Safety Coordinator

cc: Richard Brown, TES Filer City Station
Karen Kajiya-Mills, MDEQ-AQD
Filer City Compliance File-Q, SA, A File



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

**RENEWABLE OPERATING PERMIT
REPORT CERTIFICATION**

Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Environmental Quality, Air Quality Division upon request.

Source Name T.E.S. Filer City Station County Manistee

Source Address P.O. Box 12 / 700 Mee Street City Filer City

AQD Source ID (SRN) N1685 ROP No. MI-ROP-N1685-2008b ROP Section No. N/A

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, this source was in compliance with ALL terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.

☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, EXCEPT for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, ALL monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.

☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, EXCEPT for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 04/01/2013 To 06/30/2013

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

Boilers 1 and 2 Quarterly Report for the 2nd Quarter of 2013 (April – June).

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

Henry M. Hoffman
Name of Responsible Official (print or type)

General Manager
Title

231-723-6573
Phone Number

Henry M. Hoffman
Signature of Responsible Official

7-30-2013
Date

T.E.S. FILER CITY STATION

CONTINUOUS EMISSION MONITORING QUARTERLY REPORT

SUBPART Da
(NSPS SOURCES)

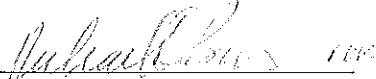
Year 2013

Report Period Ending: March 31 _____ June 30 X Sept. 30 _____ Dec. 31 _____

I. GENERAL INFORMATION

1. Source: T.E.S. FILER CITY STATION
2. Address: 700 MEE STREET
FILER CITY, MICHIGAN 49634
3. Plant Phone Number: (231) 723-6573
4. Affected Facility: BOILER #1 X BOILER #2 X
5. Control Device(s): GEESI/DRY FLUE GAS DESULFERIZATION SYSTEM
GEESI/FABRIC FILTER BAGHOUSES
6. Fuel Type: Coal/Wood/TDF/Petroleum Coke/Construction & Demolition Waste
(NOTE: Although allowed by permit, C/D wastes were not fired during the quarter)
7. Person Completing Report

(Print) Jason M. Prentice

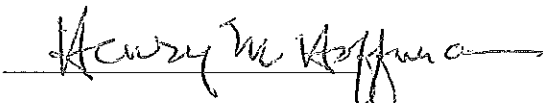
(Signature) 

(Date) 7/29/13

This is to certify that, to the best of my knowledge, the information provided on these forms is correct and accurate.

8. Person Responsible For Review and Integrity of Report:

(Print) Henry M. Hoffman

(Signature) 

(Date) 7-30-2013

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 1 CO2	INLET # 2 CO2	STACK # 1 CO2	STACK # 2 CO2
1. MFG:	Durag, Inc.	Durag, Inc.	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹
2. MODEL NO:	D-R 290	D-R 290	43i	43i	43i	43i	42i	42i	48i	48i	410i	410i	410i	410i
3. SERIAL NO:	425692	425693	0622717879	0622717883	0622717877	0622717880	0623017966	0623017967	0622717887	0622717888	0622717873	0622717875	0622717869	0622717874
4. Basis for Gas Measurement (wet or dry)	N / A	N / A	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET
5. F-Factor Used	N / A	N / A	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	N / A	N / A	N / A	N / A

¹ T. E. I. standards for Thermo Environmental Instruments, Inc.

6. F-Factor Method: Fuel Analyses and Method 19, Equation 19-15 and/or Method 19, Table 19-2. Please note that the fuel factors are unit specific and are based upon the relative amounts (on a heat input basis) of coal, wood, petroleum coke and tire-derived-fuel (TDF) that are fired within a given time period.

7. Ave. Time	6 Minute	6 Minute	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour
--------------	----------	----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

8. Zero/Span
Values

ZERO	0 %	0 %	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 %	0 %	0 %	0 %
SPAN	45 %	45 %	2,000 PPM	2,000 PPM	H: 1,500 PPM ¹ L: 200 PPM ¹	H: 1,500 PPM ¹ L: 200 PPM ¹	500 PPM	500 PPM	H: 3,000 PPM ² L: 300 PPM ²	H: 3,000 PPM ² L: 300 PPM ²	20.0 %	20.0 %	20.0 %	20.0 %

¹ The span values for the SO₂ Stack CEMS were revised from 2,000 ppm for the high span and 500 ppm for the low span just prior to the September 2008 Part 75 certification tests. The revised high and low span values were determined in accordance with sections 2.1.1.3 and 2.1.1.4 of Appendix A to 40 CFR Part 75.

² The historic span value for each of the CO Stack CEMS was 500 ppm (with a full scale of 2,050 ppm). In May of 2012, the plant implemented dual ranges for each CO CEMS, with a low range span value of 300 ppm and a high range span value of 3,000 ppm.

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

	Monitoring System	RATA	7-Day Calibration Drift Test	Cycle-time Test	COMS Field Audit Test	COMS 168-hr Operational Test
9. Date of Last Performance Specification Test Passed	Boiler 1 Gas CEMS	08/28/2012	10/31/2006 (Stk SO ₂ = 09/25/08)	10/18/2006 (Stk SO ₂ = 10/03/08)	N/A	N/A
	Boiler 1 COMS	N/A	N/A	N/A	08/27/2012	10/26/2006
	Boiler 2 Gas CEMS	08/29/2012	10/31/2006 (Stk SO ₂ = 09/25/08)	10/23/2006 (Stk SO ₂ = 10/03/08)	N/A	N/A
	Boiler 2 COMS	N/A	N/A	N/A	08/27/2012	11/01/2006

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 2 CO2	INLET # 2 CO2	STACK #1 CO2	STACK # 2 CO2
10. Modification Since Last PST Date (10-06; 9-08)	NONE	NONE	NONE	NONE	NONE (Changed high & low span vals in 2008)	NONE (Changed high & low span vals in 2008)	NONE	NONE	NONE (Went to dual range as of 5-2012)	NONE (Went to dual range as of 5-2012)	NONE	NONE	NONE	NONE

	10 % (6-Min)	10 % (6-Min)	N / A	N / A	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.3 lb/mm Btu (24-Hour)	0.3 lb/mm Btu (24-Hour)	N / A	N / A	N / A	N / A
11. Emission Limits (Averaging Period)														

T.E.S. FILER CITY STATION

III. MONITORING AND COMPLIANCE SUMMARY (per 40 CFR 60.51a(h))

	<u>YES</u>	<u>NO</u>	<u>REF.</u>
1. Were the required continuous monitoring systems calibrated, span, and drift checks or other periodic audits performed as specified?	<u>X</u>	<u> </u>	<u> </u>
2. Were the data used to show compliance obtained in accordance with approved methods and procedures of Subpart Da?	<u>X</u>	<u> </u>	<u> </u>
3. Are the data representative of plant performance?	<u>X</u>	<u> </u>	<u> </u>
4. Were the minimum data requirements met? If no, were they not met due to unavoidable errors?	<u>X</u>	<u> </u>	<u> </u>
5. Was compliance with the standards achieved during the reporting period?	<u> </u>	<u>X</u>	<u> </u>

Boiler #1

SO ₂ Stack Limit 0.7 lb/MMBTU 24 Hour	<u> </u>	<u>X</u>	<u> </u>
SO ₂ Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
SO ₂ 90% Reduction 30 Day	<u>X</u>	<u> </u>	<u> </u>
NO _x Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
Opacity Limit >10% 6 Minute Average	<u> </u>	<u>X</u>	<u> </u>

Boiler #2

SO ₂ Stack Limit 0.7 lb/MMBTU 24 Hour	<u> </u>	<u>X</u>	<u> </u>
SO ₂ Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
SO ₂ 90% Reduction 30 Day	<u>X</u>	<u> </u>	<u> </u>
NO _x Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
Opacity Limit >10% 6 Minute Average	<u> </u>	<u>X</u>	<u> </u>

T.E.S. FILER CITY STATION

V. EXCESS EMISSION REPORT - SO₂ AND NO_x

SO₂ EVENTS (30 Day Rolling Average Limit of 0.5 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

SO₂ EVENTS (24 Hour Average Limit of 0.7 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
04/20/2013 (Op Hrs = 12:00-23:00)	1	0.8	Boiler 1 was removed from service to repair failed temp. probes on the turbine generator; during SU, SO ₂ dry scrubber had to be bypassed to pre-warm the baghouse & maintain the required minimum inlet temperature.	Followed the Maintenance Management Plan (MMP); boiler & baghouse were brought up to full operating temp. as quickly as possible; scrubber was placed into service per manufacturer recommendations.
04/10/2013 (Op Hrs = 00:00-12:00 & 14:00- 23:00)	2	0.8	Atomizer wiring and drive fault tripped SO ₂ scrubber offline; boiler was removed from service while repairs were being made. During SU, SO ₂ dry scrubber had to be bypassed to pre-warm the baghouse & maintain the required minimum inlet temperature.	Wiring runs were replaced and a spare replacement drive was installed. Followed the Maintenance Management Plan (MMP); boiler & baghouse were brought up to full operating temp. as quickly as possible; scrubber was placed into service per manufacturer recommendations.

SO₂ EVENTS (30 Day Rolling Average Limit of SO₂ Percent Reduction: Limit=90%)

Date(s) Occurred	Boiler No.	Value (% removal)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NO_x EVENTS (30 Day Rolling Average Limit of 0.60 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

T.E.S. FILER CITY STATION

OPACITY EVENTS (Excess Emission Notification >10%, 6-Min. Average, for ≥ 2 Hours)

Date(s) Occurred	Boiler No.	Value (% opacity)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NOTE: All six minute periods during which the average opacity exceeds 10% are identified in the attached monthly "Excess Emissions Report" for Boiler #1 and Boiler #2.

VI. QUALITY ASSURANCE DATA

1a. OUT-OF-CONTROL ASSESSMENT INFORMATION

BOILER # 1

INLET CO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717873	None	N / A	N / A

STACK CO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717869	None	N / A	N / A

INLET SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

T.E.S. FILER CITY STATION**STACK SO₂ METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717877	None	N / A	N / A

STACK NO_x METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017966	06/23/13; Hrs 5:00 – 08:00 (4 Hrs)	Analyzer failed the calibration drift assessment.	Replaced analyzer pump assembly and ran passing calibration error test.

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425692	None	N / A	N / A

2a. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #1

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

3a. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 1 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Relative Accuracy Test Audits (RATAs), Cylinder Gas Audits (CGAs) or Linearity Tests.

T.E.S. FILER CITY STATION

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled "Downtime Report". The information provided in Section VI.1a of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

1b. OUT-OF-CONTROL ASSESSMENT INFORMATION

BOILER # 2

INLET CO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717875	None	N / A	N / A

STACK CO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717874	None	N / A	N / A

INLET SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717883	None	N / A	N / A

STACK SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717880	None	N / A	N / A

T.E.S. FILER CITY STATION**STACK NO_x METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017967	None	N / A	N / A

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425693	06/06/2013; 5:12 – 7:36 (2.4 Hrs)	Opacity meter failed the calibration drift assessment.	DAHS locked up; restarted the daily calibration sequence.

2b. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #2

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

3b. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 2 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Relative Accuracy Test Audits (RATAs), Cylinder Gas Audits (CGAs) or Linearity Tests.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled "Downtime Report". The information provided in Section VI.1b of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

T.E.S. FILER CITY STATION

4. Full Scale Exceedance: Identification of times when pollutant concentration exceeds full span of the continuous monitoring system.

Date(s) Occurred	Boiler No.	Description	Corrective Action
None	1	N / A	N / A
None	2	N / A	N / A

**TES FILER CITY STATION
AIR EMISSION SUMMARY**

APRIL 2013

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE									NITROGEN OXIDES		
				<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	40098 /	40098	100.00%	614.0 /	626.0	98.08%	626.0 /	626.0	100.00%	626.0 /	626.0	100.00%	626.0 /	626.0	100.00%
YTD			100.00%			99.57%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	41202 /	41226	99.94%	624.0 /	647.0	96.45%	647.0 /	647.0	100.00%	647.0 /	647.0	100.00%	647.0 /	647.0	100.00%
YTD			99.99%			99.18%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

**TES FILER CITY STATION
AIR EMISSION SUMMARY**

MAY 2013

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE									NITROGEN OXIDES		
				<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44640 /	44640	100.00%	732.0 /	732.0	100.00%	732.0 /	732.0	100.00%	732.0 /	732.0	100.00%	732.0 /	732.0	100.00%
YTD			100.00%			99.66%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44634 /	44640	99.99%	735.0 /	735.0	100.00%	735.0 /	735.0	100.00%	735.0 /	735.0	100.00%	735.0 /	735.0	100.00%
YTD			99.99%			99.35%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

MAY

7/26/2013 7:59 AM
TESFiler0002500

**TES FILER CITY STATION
AIR EMISSION SUMMARY**

JUNE 2013

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE									NITROGEN OXIDES		
				<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	43182 /	43200	99.96%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
YTD			99.99%			99.72%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	43170 /	43200	99.93%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
YTD			99.98%			99.46%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION AIR EMISSION SUMMARY

2nd QUARTER 2013

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
APR	40098 /	40098	100.00%	614.0 /	626.0	98.08%	626.0 /	626.0	100.00%	626.0 /	626.0	100.00%	626.0 /	626.0	100.00%
MAY	44640 /	44640	100.00%	732.0 /	732.0	100.00%	732.0 /	732.0	100.00%	732.0 /	732.0	100.00%	732.0 /	732.0	100.00%
JUN	43182 /	43200	99.96%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
2 nd Quarter	127920 /	127938	99.99%	2,066.0 /	2,078.0	99.42%	2,078.0 /	2,078.0	100.00%	2,078.0 /	2,078.0	100.00%	2,078.0 /	2,078.0	100.00%
YTD			99.99%			99.72%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
APR	41202 /	41226	99.94%	624.0 /	647.0	96.45%	647.0 /	647.0	100.00%	647.0 /	647.0	100.00%	647.0 /	647.0	100.00%
MAY	44634 /	44640	99.99%	735.0 /	735.0	100.00%	735.0 /	735.0	100.00%	735.0 /	735.0	100.00%	735.0 /	735.0	100.00%
JUN	43170 /	43200	99.93%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
2 nd Quarter	129006 /	129066	99.95%	2,079.0 /	2,102.0	98.91%	2,102.0 /	2,102.0	100.00%	2,102.0 /	2,102.0	100.00%	2,102.0 /	2,102.0	100.00%
YTD			99.98%			99.46%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

CEMS Daily Averages - 04/01/13 To 06/30/13

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Period: 04/01/13 00:00:00 To 06/30/13 23:59:59; Records = 91

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day	Vld	24-Hr	Vld	30-Day	Vld	30-Day	% Red.	Vld	Tons
04/01/13	24		0.422	30	0.196	24	0.186	30	91.85	30	1.93	24
04/02/13	24		0.422	30	0.187	24	0.185	30	91.85	30	1.83	24
04/03/13	24		0.423	30	0.176	24	0.185	30	91.85	30	1.84	24
04/04/13	24		0.423	30	0.170	24	0.184	30	91.88	30	1.59	24
04/05/13	24		0.423	30	0.196	24	0.185	30	91.83	30	1.91	24
04/06/13	24		0.422	30	0.170	24	0.184	30	91.83	30	1.55	24
04/07/13	24		0.421	30	0.181	24	0.184	30	91.81	30	1.50	24
04/08/13	24		0.420	30	0.174	24	0.183	30	91.87	30	0.91	24
04/09/13	16		0.420	30	0.190	16	0.183	30	91.87	30	1.19	24
04/10/13	0		0.420	30	0.000	00	0.183	30	91.87	30	1.44	23
04/11/13	1		0.420	30	0.000	00	0.183	30	91.87	30	0.94	23
04/12/13	24		0.421	30	0.248	24	0.182	30	91.70	30	1.43	24
04/13/13	24		0.420	30	0.145	24	0.180	30	91.77	30	1.43	24
04/14/13	24		0.419	30	0.185	24	0.180	30	91.78	30	1.74	24
04/15/13	24		0.418	30	0.188	24	0.180	30	91.76	30	1.80	24
04/16/13	24		0.417	30	0.201	24	0.181	30	91.71	30	1.90	24
04/17/13	24		0.416	30	0.161	24	0.180	30	91.75	30	1.50	24
04/18/13	21		0.416	30	0.212	21	0.180	30	91.75	30	1.31	21
04/19/13	0		0.416	30	0.000	00	0.180	30	91.75	30	0.00	00
04/20/13	12		0.416	30	0.775	11	0.180	30	91.75	30	0.00	11
04/21/13	24		0.415	30	0.243	24	0.181	30	91.66	30	2.31	24
04/22/13	24		0.413	30	0.139	24	0.179	30	91.74	30	1.36	24
04/23/13	24		0.412	30	0.156	24	0.178	30	91.78	30	1.55	24
04/24/13	24		0.411	30	0.191	24	0.178	30	91.79	30	1.79	24
04/25/13	24		0.409	30	0.188	24	0.178	30	91.77	30	1.94	24
04/26/13	24		0.408	30	0.184	24	0.178	30	91.79	30	1.86	24
04/27/13	24		0.406	30	0.193	24	0.178	30	91.79	30	1.91	24
04/28/13	24		0.404	30	0.206	24	0.177	30	91.84	30	2.14	24
04/29/13	24		0.402	30	0.140	24	0.178	30	91.82	30	1.36	24
04/30/13	24		0.401	30	0.182	24	0.180	30	91.76	30	1.56	24
05/01/13	24		0.401	30	0.170	24	0.179	30	91.80	30	1.50	24
05/02/13	24		0.400	30	0.161	24	0.179	30	91.83	30	1.61	24
05/03/13	24		0.398	30	0.154	24	0.178	30	91.88	30	1.43	24
05/04/13	24		0.396	30	0.133	24	0.177	30	91.92	30	1.31	24
05/05/13	24		0.395	30	0.151	24	0.176	30	91.96	30	1.48	24
05/06/13	24		0.393	30	0.153	24	0.174	30	92.03	30	1.50	24
05/07/13	24		0.392	30	0.123	24	0.172	30	92.12	30	1.29	24

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day	Vld	24-Hr	Vld	30-Day	Vld	30-Day	Vld	SO2	Vld
05/08/13	24		0.390	30	0.158	24	0.171	30	92.17	30	1.65	24
05/09/13	24		0.389	30	0.140	24	0.169	30	92.22	30	1.40	24
05/10/13	24		0.388	30	0.150	24	0.169	30	92.25	30	1.60	24
05/11/13	24		0.387	30	0.156	24	0.167	30	92.31	30	1.61	24
05/12/13	24		0.386	30	0.136	24	0.166	30	92.36	30	1.42	24
05/13/13	24		0.385	30	0.145	24	0.165	30	92.40	30	1.37	24
05/14/13	24		0.384	30	0.121	24	0.163	30	92.47	30	1.20	24
05/15/13	24		0.382	30	0.139	24	0.163	30	92.68	30	1.36	24
05/16/13	24		0.382	30	0.162	24	0.164	30	92.64	30	1.61	24
05/17/13	24		0.382	30	0.161	24	0.163	30	92.67	30	1.32	24
05/18/13	24		0.383	30	0.112	24	0.160	30	92.78	30	0.96	24
05/19/13	24		0.382	30	0.102	24	0.157	30	92.92	30	1.10	24
05/20/13	24		0.381	30	0.152	24	0.157	30	92.95	30	1.48	24
05/21/13	24		0.380	30	0.156	24	0.154	30	93.08	30	1.58	24
05/22/13	24		0.380	30	0.166	21	0.155	30	93.04	30	1.47	21
05/23/13	24		0.380	30	0.143	24	0.154	30	93.05	30	1.69	24
05/24/13	24		0.381	30	0.141	24	0.153	30	93.11	30	1.41	24
05/25/13	24		0.382	30	0.125	24	0.150	30	93.20	30	1.41	24
05/26/13	24		0.384	30	0.138	24	0.149	30	93.27	30	1.62	24
05/27/13	24		0.387	30	0.146	24	0.147	30	93.33	30	1.55	24
05/28/13	13		0.387	30	0.173	13	0.147	30	93.33	30	1.15	24
05/29/13	23		0.387	30	0.185	23	0.147	30	93.33	30	1.11	24
05/30/13	24		0.387	30	0.111	24	0.144	30	93.46	30	1.32	24
05/31/13	24		0.387	30	0.139	24	0.144	30	93.44	30	1.53	24
06/01/13	24		0.386	30	0.158	24	0.143	30	93.46	30	1.66	24
06/02/13	24		0.386	30	0.143	24	0.142	30	93.49	30	1.61	24
06/03/13	24		0.387	30	0.143	24	0.142	30	93.50	30	1.53	24
06/04/13	24		0.388	30	0.103	24	0.140	30	93.56	30	1.18	24
06/05/13	24		0.389	30	0.099	24	0.139	30	93.61	30	1.09	24
06/06/13	24		0.391	30	0.121	24	0.138	30	93.66	30	1.26	24
06/07/13	24		0.392	30	0.180	24	0.139	30	93.62	30	1.91	24
06/08/13	24		0.393	30	0.181	24	0.141	30	93.54	30	1.79	24
06/09/13	24		0.393	30	0.180	24	0.142	30	93.50	30	1.87	24
06/10/13	24		0.393	30	0.152	24	0.142	30	93.49	30	1.54	24
06/11/13	24		0.393	30	0.167	24	0.143	30	93.46	30	1.65	24
06/12/13	24		0.393	30	0.156	24	0.143	30	93.47	30	1.53	24
06/13/13	24		0.394	30	0.180	24	0.144	30	93.40	30	1.76	24
06/14/13	24		0.396	30	0.141	24	0.144	30	93.42	30	1.46	24
06/15/13	24		0.397	30	0.091	24	0.143	30	93.47	30	1.09	24
06/16/13	24		0.397	30	0.138	24	0.143	30	93.48	30	1.26	24
06/17/13	24		0.397	30	0.123	24	0.141	30	93.55	30	1.23	24

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
06/18/13	24		0.398	30	0.171	24	0.142	30	93.54	30	1.64	24
06/19/13	24		0.397	30	0.183	24	0.144	30	93.45	30	1.74	24
06/20/13	24		0.398	30	0.168	24	0.146	30	93.36	30	1.63	24
06/21/13	24		0.399	30	0.114	24	0.145	30	93.42	30	1.32	24
06/22/13	24		0.399	30	0.133	24	0.144	30	93.46	30	1.42	24
06/23/13	24		0.399	30	0.170	23	0.145	30	93.46	30	1.50	23
06/24/13	24		0.399	30	0.139	24	0.144	30	93.47	30	1.31	24
06/25/13	24		0.399	30	0.144	24	0.144	30	93.48	30	1.40	24
06/26/13	24		0.400	30	0.153	24	0.145	30	93.44	30	1.41	24
06/27/13	24		0.399	30	0.139	24	0.145	30	93.43	30	1.32	24
06/28/13	24		0.398	30	0.158	24	0.146	30	93.40	30	1.52	24
06/29/13	24		0.399	30	0.158	24	0.147	30	93.33	30	1.49	24
06/30/13	24		0.401	30	0.139	24	0.147	30	93.33	30	1.33	24

CEMS Daily Averages - 04/01/13 To 06/30/13

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Period: 04/01/13 00:00:00 To 06/30/13 23:59:59; Records = 91

Date	Operating Hours		NOx		SO2		SO2		SO2	
	CEMS		30-Day	Vld	24-Hr	Vld	30-Day	Vld	30-Day	% Red. Vld
04/01/13	24		0.411	30	0.187	24	0.174	30	92.08	30 0.00
04/02/13	24		0.410	30	0.176	24	0.174	30	92.10	30 0.00
04/03/13	24		0.410	30	0.192	24	0.174	30	92.08	30 0.00
04/04/13	24		0.410	30	0.150	24	0.173	30	92.14	30 0.00
04/05/13	24		0.409	30	0.187	24	0.173	30	92.11	30 0.00
04/06/13	24		0.408	30	0.143	24	0.173	30	92.13	30 0.00
04/07/13	23		0.408	30	0.129	23	0.173	30	92.13	30 0.00
04/08/13	0		0.408	30	0.000	00	0.173	30	92.13	30 0.00
04/09/13	16		0.408	30	0.444	16	0.173	30	92.13	30 0.00
04/10/13	23		0.408	30	0.780	23	0.173	30	92.13	30 0.00
04/11/13	24		0.408	30	0.206	24	0.173	30	92.13	30 0.00
04/12/13	24		0.407	30	0.169	24	0.172	30	92.14	30 0.00
04/13/13	24		0.406	30	0.142	24	0.172	30	92.15	30 0.00
04/14/13	24		0.405	30	0.160	24	0.171	30	92.21	30 0.00
04/15/13	24		0.404	30	0.169	24	0.170	30	92.21	30 0.00
04/16/13	24		0.403	30	0.176	24	0.170	30	92.20	30 0.00
04/17/13	24		0.402	30	0.142	24	0.170	30	92.22	30 0.00
04/18/13	21		0.402	30	0.187	21	0.170	30	92.22	30 0.00
04/19/13	0		0.402	30	0.000	00	0.170	30	92.22	30 0.00
04/20/13	12		0.402	30	0.567	11	0.170	30	92.22	30 0.00
04/21/13	24		0.401	30	0.239	24	0.171	30	92.13	30 0.00
04/22/13	24		0.399	30	0.151	24	0.170	30	92.16	30 0.00
04/23/13	24		0.398	30	0.157	24	0.169	30	92.24	30 0.00
04/24/13	24		0.398	30	0.173	24	0.169	30	92.22	30 0.00
04/25/13	24		0.398	30	0.206	24	0.171	30	92.15	30 0.00
04/26/13	24		0.397	30	0.190	24	0.172	30	92.11	30 0.00
04/27/13	24		0.396	30	0.198	24	0.173	30	92.07	30 0.00
04/28/13	24		0.396	30	0.230	24	0.174	30	92.02	30 0.00
04/29/13	24		0.397	30	0.139	24	0.174	30	92.06	30 0.00
04/30/13	24		0.396	30	0.140	24	0.174	30	92.07	30 0.00
05/01/13	24		0.396	30	0.132	24	0.173	30	92.12	30 0.00
05/02/13	24		0.396	30	0.165	24	0.173	30	92.13	30 0.00
05/03/13	24		0.396	30	0.137	24	0.172	30	92.18	30 0.00
05/04/13	24		0.396	30	0.135	24	0.171	30	92.25	30 0.00
05/05/13	24		0.395	30	0.151	24	0.170	30	92.29	30 0.00
05/06/13	24		0.394	30	0.152	24	0.169	30	92.31	30 0.00
05/07/13	24		0.394	30	0.142	24	0.168	30	92.36	30 0.00

Date	Operating Hours		NOx		SO2		SO2		SO2	
	CEMS		30-Day	Vld	24-Hr	Vld	30-Day	Vld	30-Day	% Red. Vld
05/08/13	24		0.394	30	0.180	24	0.168	30	92.37	30 0.00
05/09/13	24		0.393	30	0.144	24	0.166	30	92.41	30 0.00
05/10/13	24		0.392	30	0.175	24	0.166	30	92.42	30 0.00
05/11/13	24		0.391	30	0.169	24	0.167	30	92.39	30 0.00
05/12/13	24		0.391	30	0.147	24	0.165	30	92.45	30 0.00
05/13/13	24		0.392	30	0.124	24	0.165	30	92.46	30 0.00
05/14/13	24		0.390	30	0.122	24	0.162	30	92.57	30 0.00
05/15/13	24		0.389	30	0.140	24	0.161	30	92.62	30 0.00
05/16/13	24		0.390	30	0.165	24	0.162	30	92.58	30 0.00
05/17/13	18		0.390	30	0.141	18	0.162	30	92.58	30 0.00
05/18/13	21		0.390	30	0.244	21	0.162	30	92.58	30 0.00
05/19/13	24		0.389	30	0.124	24	0.160	30	92.63	30 0.00
05/20/13	24		0.389	30	0.152	24	0.160	30	92.65	30 0.00
05/21/13	24		0.389	30	0.165	24	0.159	30	92.66	30 0.00
05/22/13	24		0.390	30	0.173	24	0.161	30	92.61	30 0.00
05/23/13	24		0.391	30	0.196	24	0.159	30	92.68	30 0.00
05/24/13	24		0.393	30	0.135	24	0.159	30	92.70	30 0.00
05/25/13	24		0.395	30	0.152	24	0.158	30	92.72	30 0.00
05/26/13	24		0.397	30	0.189	24	0.159	30	92.70	30 0.00
05/27/13	24		0.400	30	0.173	24	0.158	30	92.75	30 0.00
05/28/13	24		0.400	30	0.151	24	0.157	30	92.81	30 0.00
05/29/13	24		0.401	30	0.175	24	0.156	30	92.83	30 0.00
05/30/13	24		0.400	30	0.154	24	0.153	30	92.93	30 0.00
05/31/13	24		0.399	30	0.168	24	0.154	30	92.87	30 0.00
06/01/13	24		0.398	30	0.177	24	0.156	30	92.80	30 0.00
06/02/13	24		0.399	30	0.180	24	0.157	30	92.72	30 0.00
06/03/13	24		0.399	30	0.163	24	0.157	30	92.72	30 0.00
06/04/13	24		0.399	30	0.137	24	0.157	30	92.71	30 0.00
06/05/13	24		0.399	30	0.121	24	0.157	30	92.73	30 0.00
06/06/13	24		0.400	30	0.133	24	0.156	30	92.75	30 0.00
06/07/13	24		0.401	30	0.207	24	0.158	30	92.66	30 0.00
06/08/13	24		0.400	30	0.181	24	0.159	30	92.59	30 0.00
06/09/13	24		0.400	30	0.197	24	0.160	30	92.57	30 0.00
06/10/13	24		0.399	30	0.160	24	0.160	30	92.55	30 0.00
06/11/13	24		0.399	30	0.168	24	0.160	30	92.57	30 0.00
06/12/13	24		0.399	30	0.155	24	0.160	30	92.60	30 0.00
06/13/13	24		0.399	30	0.177	24	0.161	30	92.56	30 0.00
06/14/13	24		0.400	30	0.152	24	0.161	30	92.53	30 0.00
06/15/13	24		0.401	30	0.129	24	0.162	30	92.53	30 0.00
06/16/13	24		0.401	30	0.115	24	0.161	30	92.58	30 0.00
06/17/13	24		0.401	30	0.124	24	0.159	30	92.64	30 0.00

Date	Operating Hours		NOx		SO2		SO2		SO2		
	CEMS		30-Day	Vld	24-Hr	Vld	30-Day	Vld	30-Day	% Red.	
06/18/13	24		lb/mmBt		lb/mmBt		lb/mmBt				
06/18/13	24		0.402	30	0.158	24	0.161	30	92.59	30	0.00
06/19/13	24		0.403	30	0.166	24	0.161	30	92.57	30	0.00
06/20/13	24		0.403	30	0.159	24	0.161	30	92.59	30	0.00
06/21/13	24		0.403	30	0.152	24	0.160	30	92.63	30	0.00
06/22/13	24		0.401	30	0.150	24	0.159	30	92.72	30	0.00
06/23/13	24		0.398	30	0.146	24	0.159	30	92.71	30	0.00
06/24/13	24		0.396	30	0.125	24	0.158	30	92.75	30	0.00
06/25/13	24		0.392	30	0.137	24	0.156	30	92.82	30	0.00
06/26/13	24		0.389	30	0.134	24	0.155	30	92.87	30	0.00
06/27/13	24		0.387	30	0.128	24	0.154	30	92.90	30	0.00
06/28/13	24		0.387	30	0.150	24	0.153	30	92.94	30	0.00
06/29/13	24		0.387	30	0.144	24	0.153	30	92.96	30	0.00
06/30/13	24		0.388	30	0.132	24	0.152	30	93.02	30	0.00

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 Opacity

Emission Limitation: 10

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/27/2012

Total Source Operating Time in Reporting Period: 21323 periods

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	%
		Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	5	0.02
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	5	0.02

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess
		Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	3	0.01
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	3	0.01

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

RICHARD BROWN
NAME

[Signature]
SIGNATURE

EHS COORDINATOR
TITLE

7/29/13
DATE

TESFiler0002509

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 NOx lb/mmBtu 30-Day

Emission Limitation: 0.60

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/2012

Total Source Operating Time in Reporting Period: 2078 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	4	0.19
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	1	0.05
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	5	0.24

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Richard Brown
NAME

[Signature]
SIGNATURE

EHS COORDINATOR
TITLE

7/29/13
DATE

TESFiler0002510

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO₂ lb/mmBtu 24-Hr

Emission Limitation: 0.7

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/2012

Total Source Operating Time in Reporting Period: 2078 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	1	0.05
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	12	0.58
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	12	0.58

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Ricardo Brown
NAME

[Signature]
SIGNATURE

EHS COORDINATOR
TITLE

4/29/13
DATE

TESFiler0002511

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO₂ lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/2012

Total Source Operating Time in Reporting Period: 2078 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	1	0.05
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

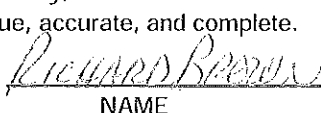
Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

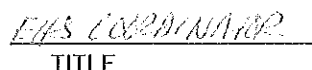
$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

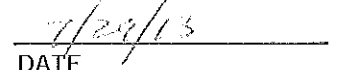
On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.


 NAME


 SIGNATURE


 TITLE


 DATE

TESFiler0002512

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO2 Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/2012

Total Source Operating Time in Reporting Period: 2078 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	2	0.10
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	2	0.10

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

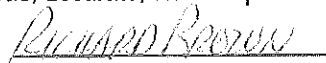
Durations in hours

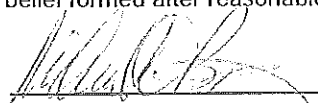
(2) % Excess Emissions is calculated by the following formulas:

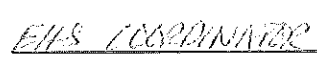
$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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 NAME


 SIGNATURE


 TITLE


 DATE

TESFiler0002513

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boilers Total SO₂ Tons

Emission Limitation: 6.45

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boilers

Date of Last CEMS Certification or Audit: 08/30/2012

Total Source Operating Time in Reporting Period: 2144 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	1	0.05
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Ronald Brown
NAME

[Signature]
SIGNATURE

EHS ADMINISTRATOR
TITLE

7/29/13
DATE

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 CO lb/mmBtu 24-Hr

Emission Limitation: 0.3

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/28/2012

Total Source Operating Time in Reporting Period: 2078 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
		%	
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)	
1. Monitor Equipment Malfunctions	10	0.48	
2. Non-Monitor CEMS Equipment Malfunction	0	0.00	
3. Calibration/QA	1	0.05	
4. Other Known Causes	0	0.00	
5. Unknown Causes	0	0.00	
2. Total CEMS Downtime	11	0.53	

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Ricardo Barrios
NAME

Milla R. Barrios
SIGNATURE

EMS COORDINATOR
TITLE

7/24/13
DATE

TESFiler0002515

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2078 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	%
		Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	10	0.48
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	6	0.29
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	16	0.77

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess
		Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Richard Brown
NAME

[Signature]
SIGNATURE

EMS COORDINATOR
TITLE

7/29/13
DATE

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 Opacity

Emission Limitation: 10

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/27/2012

Total Source Operating Time in Reporting Period: 21511 periods

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	%
		Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	24	0.11
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	5	0.02
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	29	0.13

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess
		Emissions(2)
1. Startup/Shutdown	4	0.02
2. Control Equip Problems	0	0.00
3. Process Problems	1	0.00
4. Other Known Causes	5	0.02
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	10	0.05

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Richard Brown
NAME

[Signature]
SIGNATURE

EMS COORDINATOR
TITLE

7/29/13
DATE

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 NOx lb/mmBtu 30-Day

Emission Limitation: 0.60

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2102 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	%	
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Richard Brown
NAME

[Signature]
SIGNATURE

EMS COORDINATOR
TITLE

7/29/13
DATE

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO₂ lb/mmBtu 24-Hr

Emission Limitation: 0.7

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2102 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	23	1.09
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	23	1.09

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Richard Brown
NAME

[Signature]
SIGNATURE

EMS COORDINATOR
TITLE

7/29/13
DATE

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO2 lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2102 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Richard Brown
NAME

[Signature]
SIGNATURE

EMS COORDINATOR
TITLE

7/24/13
DATE

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO2 Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2102 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	%	
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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Richard Brown
NAME

[Signature]
SIGNATURE

EHS COORDINATOR
TITLE

7/29/13
DATE

TESFiler0002521

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 CO lb/mmBtu 24-Hr

Emission Limitation: 0.3

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/29/2012

Total Source Operating Time in Reporting Period: 2102 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Richard Brown
NAME

[Signature]
SIGNATURE

EHS COORDINATOR
TITLE

7/29/13
DATE

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 4/01/2013 To 6/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/30/2012

Total Source Operating Time in Reporting Period: 2102 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	1	0.05
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.05

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Richard Brown
NAME

[Signature]
SIGNATURE

EHS COORDINATOR
TITLE

7/29/13
DATE

TESFiler0002523

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Opacity

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/22/13 09:36:34	05/22/13 10:05:34	5	15=Preventative Maintenance	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 5 Periods , Data Availability for this Reporting Period = 99.98 %

Total Operating Time in the Reporting Period = 21323 Periods

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: NOx CEMS

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/22/13 18:00:38	05/22/13 18:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	
2	06/23/13 05:00:39	06/23/13 08:59:36	4	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Replaced pump assembly

Total Downtime in the Reporting Period = 5 hours , Data Availability for this Reporting Period = 99.76 %

Total Operating Time in the Reporting Period = 2078 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 CEMS

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/22/13 18:00:38	05/22/13 18:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %

Total Operating Time in the Reporting Period = 2078 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO #/MMBTU CEMS

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/06/13 16:00:42	05/06/13 21:59:42	6	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Changed pump diaphragm
2	05/07/13 05:00:40	05/07/13 08:59:36	4	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Replaced IR Detector
3	05/22/13 18:00:38	05/22/13 18:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 11 hours , Data Availability for this Reporting Period = 99.47 %

Total Operating Time in the Reporting Period = 2078 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO #/HOUR CEMS

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/11/13 23:00:36	04/11/13 23:59:36	1	98=Automatic Calibration	3=Quality Assurance Calibrations	
2	04/20/13 12:00:35	04/20/13 12:59:35	1	98=Automatic Calibration	3=Quality Assurance Calibrations	
3	05/06/13 16:00:42	05/06/13 21:59:42	6	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Changed pump diaphragm
4	05/07/13 05:00:40	05/07/13 08:59:36	4	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Replaced IR detector
5	05/22/13 16:00:34	05/22/13 18:59:38	3	98=Automatic Calibration	3=Quality Assurance Calibrations	
6	06/23/13 09:00:39	06/23/13 09:59:39	1	98=Automatic Calibration	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 16 hours , Data Availability for this Reporting Period = 99.23 %

Total Operating Time in the Reporting Period = 2078 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO2 Analyzer

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/22/13 18:00:38	05/22/13 18:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %

Total Operating Time in the Reporting Period = 2078 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Flow Analyzer

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2078 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Inlet SO2 CEMS

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/21/13 12:00:41	05/21/13 12:59:41	1	14=Recalibration	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %

Total Operating Time in the Reporting Period = 2078 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Inlet CO2 Analyzer

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/21/13 12:00:41	05/21/13 12:59:41	1	14=Recalibration	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %

Total Operating Time in the Reporting Period = 2078 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Opacity

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/22/13 10:12:38	05/22/13 10:41:36	5	15=Preventative Maintenance	3=Quality Assurance Calibrations	
2	06/06/13 05:12:47	06/06/13 07:35:34	24	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	DAHS locked up, restarted calibration sequence

Total Downtime in the Reporting Period = 29 Periods , Data Availability for this Reporting Period = 99.87 %

Total Operating Time in the Reporting Period = 21511 Periods

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: NOx CEMS

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2102 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 CEMS

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2102 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO #/MMBTU CEMS

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2102 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler2

Parameter: CO #/HOUR CEMS

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/20/13 12:00:39	04/20/13 12:59:39	1	98=Automatic Calibration	3=Quality Assurance Calibrations	

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %

Total Operating Time in the Reporting Period = 2102 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO2 Analyzer

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2102 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Flow Analyzer

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2102 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Inlet SO2 CEMS

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2102 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Inlet CO2 Analyzer

Data in the Reporting Period: 04/01/13 to 06/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2102 hours

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Opacity

Limit: 10

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	06/11/13 04:12:34	06/11/13 04:29:35	3	40	Process Problems	Proces Upset.	Operations adjusted Process and running well

Total Duration in the Reporting Period = 3 Periods , Percentage of Operating Time above Excess Emission Limit = 0.01 %

Total Operating Time in the Reporting Period = 21323 Periods

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: NOx lb/mmBtu 30-Day

Limit: 0.60

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2078 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 lb/mmBtu Daily Ave.

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
1	04/20/13 00:00:59	04/20/13 23:59:59	12	0.8	0.7	Startup/Shutdown	Unit #1 down for Repairs	Start up after Shut Down

Total Duration in the Reporting Period = 12 hours , Percentage of Operating Time above Excess Emission Limit = 0.58 %

Total Operating Time in the Reporting Period = 2078 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 lb/mmBtu 30-Day

Limit: 0.5

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2078 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 Reduction 30-Day

Limit: 90

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2078 hours

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boilers

Parameter: Total SO2 Tons

Limit: 6.45

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2144 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO lb/mmBtu 24-Hr Roll

Limit: 0.3

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2078 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO lb/hr 24-Hr Roll

Limit: 115.2

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2078 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Opacity

Limit: 10

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration Periods	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	04/10/13 06:36:36	04/10/13 06:47:40	2	47	71	Startup/Shutdown	Start up of Boiler #2 after scheduled	Complete repairs and bring boiler back up.
2	04/15/13 13:42:36	04/15/13 13:53:43	2	25	36	Startup/Shutdown	Start Up Boiler after Maintenance Work	Start Up of Boiler.
3	05/07/13 09:12:38	05/07/13 09:17:38	1	34	34	Other Known Causes	Quarterly PM on Analyzers and Replaced	Replaced Span Gases and Did Quarterly PM'S
4	06/01/13 14:06:38	06/01/13 14:11:38	1	11	11	Process Problems	Low Span Gas #3 Replaced Bottle	Replaced Span Gas #3 and did a Auto
5	06/04/13 09:06:46	06/04/13 09:17:37	2	34	50	Other Known Causes	Calibration Failure	Did a complete Auto Cal on Analyzers.
6	06/18/13 10:06:45	06/18/13 10:17:45	2	51	71	Other Known Causes	Opacity Cal Failure	Did a Auto Cal on Opacity. All Passed.

Total Duration in the Reporting Period = 10 Periods , Percentage of Operating Time above Excess Emission Limit = 0.05 %

Total Operating Time in the Reporting Period = 21511 Periods

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: NOx lb/mmBtu 30-Day

Limit: 0.60

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2102 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 lb/mmBtu Daily Ave.

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
1	04/10/13 00:00:59	04/10/13 23:59:59	23	0.8	0.7	Startup/Shutdown	Boiler #2 start up Problems.	Repair problems and start up.

Total Duration in the Reporting Period = 23 hours , Percentage of Operating Time above Excess Emission Limit = 1.09 %

Total Operating Time in the Reporting Period = 2102 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 lb/mmBtu 30-Day

Limit: 0.5

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2102 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 Reduction 30-Day

Limit: 90

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2102 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO lb/mmBtu 24-Hr Roll

Limit: 0.3

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2102 hours

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO lb/hr 24-Hr Roll

Limit: 115.2

Data in the Reporting Period: 04/01/13 to 06/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2102 hours

Linearity Test Report - 2013Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i

Serial Number: 0623017966

Low-Level Calibration Gas Concentration: 124.00
(20-30% of Span) Cylinder No.: CC27079
(100.00 ppm - 150.00 ppm) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Mid-Level Calibration Gas Concentration: 275.00
(50-60% of Span) Cylinder No.: CC214741
(250.00 ppm - 300.00 ppm) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

High-Level Calibration Gas Concentration: 416.30
(80-100% of Span) Cylinder No.: CC127896
(400.00 ppm - 500.00 ppm) Expiration Date: 04/01/21

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Test Date: 05/21/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	11:32:41	125.70	11:37:41	275.70	11:42:40	410.80
Run 2	12:08:36	125.70	12:13:34	276.20	12:18:34	410.70
Run 3	12:31:35	126.10	12:36:35	276.20	12:41:34	410.60
Avg. Monitor Response		125.833		276.033		410.700
Linearity Error		1.5		0.4		1.3
Absolute Difference		1.8		1.0		5.6
Test Status		Pass		Pass		Pass

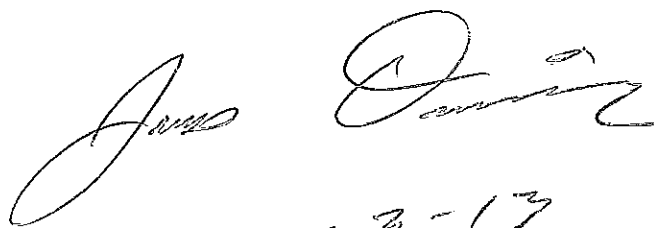
$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm



5-23-13

JAMES FANNING

Linearity Test Report - 2013Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 SO2 High Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717877

Low-Level Calibration Gas Concentration: 498.10
(20-30% of Span) Cylinder No.: XC009831B
(400.00 ppm - 600.00 ppm) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO2,SO2,BALN

Mid-Level Calibration Gas Concentration: 1099.0
(50-60% of Span) Cylinder No.: CC151205
(1000.0 ppm - 1200.0 ppm) Expiration Date: 11/16/14

Vendor ID: B62011
Gas Type Code: CO2,SO2,BALN

High-Level Calibration Gas Concentration: 1704.0
(80-100% of Span) Cylinder No.: SG9148061BAL
(1600.0 ppm - 2000.0 ppm) Expiration Date: 03/27/21

Vendor ID: B62013
Gas Type Code: CO2,SO2,BALN

Test Date: 05/22/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	13:26:34	498.00	13:31:36	1097.2	13:36:38	1678.0
Run 2	13:47:40	500.60	13:52:34	1094.8	13:57:44	1672.8
Run 3	14:08:37	500.00	14:13:39	1096.0	14:18:42	1688.8
Avg. Monitor Response		499.533		1096.00		1679.87
Linearity Error		0.3		0.3		1.4
Absolute Difference		1.4		3.0		24.1
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

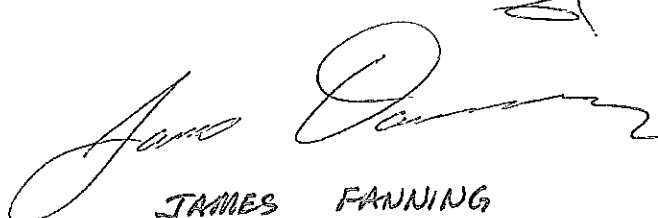
$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

5-23-13



JAMES FANNING

Linearity Test Report - 2013Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717877

Low-Level Calibration Gas Concentration: 49.380
(20-30% of Span) Cylinder No.: CC27079
(40.000 ppm - 60.000 ppm) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Mid-Level Calibration Gas Concentration: 108.30
(50-60% of Span) Cylinder No.: CC214741
(100.00 ppm - 120.00 ppm) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

High-Level Calibration Gas Concentration: 173.00
(80-100% of Span) Cylinder No.: CC127896
(160.00 ppm - 200.00 ppm) Expiration Date: 04/01/21

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Test Date: 05/21/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	11:32:41	50.000	11:37:41	107.30	11:42:40	169.10
Run 2	12:08:36	49.300	12:13:34	105.80	12:18:34	167.60
Run 3	12:31:35	50.000	12:36:35	106.20	12:41:34	168.50
Avg. Monitor Response		49.767		106.433		168.400
Linearity Error		0.8		1.7		2.7
Absolute Difference		0.4		1.9		4.6
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} | \times 100}{\text{Cal. Gas Concentration}}$$

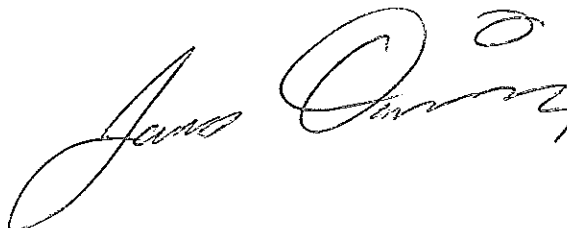
$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

5-23-13



JAMES FANNING

Linearity Test Report - 2013Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i

Serial Number: 0622717869

Low-Level Calibration Gas Concentration: 5.550
(20-30% of Span) Cylinder No.: CC27079
(4.000 % - 6.000 %) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Mid-Level Calibration Gas Concentration: 11.020
(50-60% of Span) Cylinder No.: CC214741
(10.000 % - 12.000 %) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

High-Level Calibration Gas Concentration: 17.140
(80-100% of Span) Cylinder No.: CC127896
(16.000 % - 20.000 %) Expiration Date: 04/01/21

Vendor ID: B62013
Gas Type Code: CO,CO2,NO,SO2,BALN

Test Date: 05/21/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	11:32:41	5.570	11:37:41	11.070	11:42:40	17.170
Run 2	12:08:36	5.590	12:13:34	11.090	12:18:34	17.180
Run 3	12:31:35	5.600	12:36:35	11.080	12:41:34	17.200
Avg. Monitor Response		5.587		11.080		17.183
Linearity Error		0.7		0.5		0.3
Absolute Difference		0.0		0.1		0.0
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

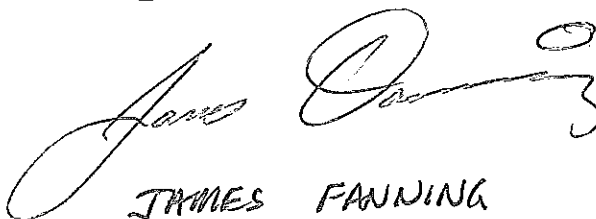
$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

5-23-13


JAMES FANNING

CGA Test Report - 2013Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 Inlet SO2 Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717879

Low-Level Calibration Gas Concentration: 498.1
(20-30% of Span) Cylinder No.: XC009831B
(400.0 ppm - 600.0 ppm) Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 1099.0
(50-60% of Span) Cylinder No.: CC151205
(1000.0 ppm - 1200.0 ppm) Expiration Date: 11/16/14

Test Date: 05/21/13

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	13:23:39	504.6	13:29:44	1099.2
Run 2	13:41:40	500.4	13:47:45	1085.4
Run 3	14:00:32	493.8	14:06:44	1085.6
Avg. Monitor Response		499.6		1090.1
Calibration Error		0.300		-0.800
Absolute Difference		1.5		8.9
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

Print Name:

Technician/Service Representative

5-23-13

CGA Test Report - 2013Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i

Serial Number: 0622717873

Low-Level Calibration Gas Concentration: 5.69
(5.00% - 8.00%) Cylinder No.: XC009831B
Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 11.05
(10.00% - 14.00%) Cylinder No.: CC151205
Expiration Date: 11/16/14

Test Date: 05/21/13

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	13:23:39	5.80	13:29:44	11.03
Run 2	13:41:40	5.77	13:47:45	10.91
Run 3	14:00:32	5.78	14:06:44	10.98
Avg. Monitor Response		5.78		10.97
Calibration Error		1.600		-0.700
Absolute Difference		0.09		0.08
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature: 
Print Name: JAMES FANNING
Technician/Service Representative

5-23-13

CGA Test Report - 2013Q2

Facility Name: TES Filer City Station

Location: Filer City, MI

8lr 1 CO High Audit Test Results

Analyzer Span: 3000.00 ppm

Mfr & Model: Thermo 48l

Serial Number: 0622717887

Low-Level Calibration Gas
(20-30% of Span)
(600.00 ppm - 900.00 ppm)

Concentration: 735.70
Cylinder No: XC009831B
Expiration Date: 11/16/13

Mid-Level Calibration Gas
(50-60% of Span)
(1500.00 ppm - 1800.00 ppm)

Concentration: 1639.00
Cylinder No: CC151205
Expiration Date: 11/16/14

Test Date:

5/22/13


Tester(s) Dave Duby

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	13:25:29	734.3	13:30:39	1642.50
Run 2	13:46:34	728.6	13:51:28	1634.40
Run 3	14:07:40	726.6	14:12:34	1642.20
Avg. Monitor Response		729.8		1639.7
Absolute Difference		5.9		0.7
Calibration Error		0.80		0.04
Test Status		Pass		Pass

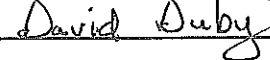
$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration} \times 100}{\text{Cal. Gas Concentration}}$$

I have personally performed the Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F Section 5.1.2 and attest that the recorded information on this document is true, accurate and complete.

Signature:



Print Name:



Technician/Service Representative

CGA Test Report - 2013Q2

Facility Name: TES Filer City Station

Location: Filer City, MI

Blr 1 CO Low Audit Test Results

Analyzer Span: 300.00 ppm

Mfr & Model: Thermo 48I

Serial Number: 0622717887

Low-Level Calibration Gas
(20-30% of Span)
(60.00 ppm - 90.00 ppm)

Concentration: 74.5
Cylinder No: CC27079
Expiration Date: 11/16/13

Vendor ID: BG2011
Gas Type Code: SNCC

Mid-Level Calibration Gas
(50-60% of Span)
(150.00 ppm - 180.00 ppm)

Concentration: 164.0
Cylinder No: CC214741
Expiration Date: 11/16/13

Vendor ID: BG2011
Gas Type Code: SNCC

Test Date:

5/21/13


Tester(s) Dave Duby

	Low		High	
	Time	Monitor Value	Time	Monitor Value
Run 1	11:32:41	72.8	11:37:41	161.9
Run 2	12:08:36	73.3	12:13:34	161.7
Run 3	12:31:35	71.8	12:36:35	162.2
Avg. Monitor Response		72.6		161.9
Absolute Difference		1.9		2.1
Calibration Error		2.51		1.26
Test Status		Pass		Pass

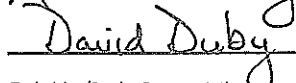
$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration} \times 100}{\text{Cal. Gas Concentration}}$$

I have personally performed the Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F Section 5.1.2 and attest that the recorded information on this document is true, accurate and complete.

Signature:



Print Name:



Technician/Service Representative

Linearity Test Report - 2013Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i

Serial Number: 0623017967

Low-Level Calibration Gas Concentration: 124.00
(20-30% of Span) Cylinder No.: CC27079
(100.00 ppm - 150.00 ppm) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Mid-Level Calibration Gas Concentration: 275.00
(50-60% of Span) Cylinder No.: CC214741
(250.00 ppm - 300.00 ppm) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

High-Level Calibration Gas Concentration: 416.30
(80-100% of Span) Cylinder No.: CC127896
(400.00 ppm - 500.00 ppm) Expiration Date: 04/01/21

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Test Date: 05/21/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	14:22:40	126.60	14:27:47	276.30	14:32:48	410.90
Run 2	14:43:47	126.70	14:48:48	276.70	14:53:47	412.60
Run 3	15:08:47	127.10	15:13:33	277.30	15:18:48	412.10
Avg. Monitor Response		126.800		276.767		411.867
Linearity Error		2.3		0.6		1.1
Absolute Difference		2.8		1.8		4.4
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

5-23-13


JAMES FANNING

Linearity Test Report - 2013Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 SO2 High Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717880

Low-Level Calibration Gas Concentration: 498.10
(20-30% of Span) Cylinder No.: XC009831B
(400.00 ppm - 600.00 ppm) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO2,SO2,BALN

Mid-Level Calibration Gas Concentration: 1099.0
(50-60% of Span) Cylinder No.: CC151205
(1000.0 ppm - 1200.0 ppm) Expiration Date: 11/16/14

Vendor ID: B62011
Gas Type Code: CO2,SO2,BALN

High-Level Calibration Gas Concentration: 1704.0
(80-100% of Span) Cylinder No.: SG9148061BAL
(1600.0 ppm - 2000.0 ppm) Expiration Date: 03/27/21

Vendor ID: B62013
Gas Type Code: CO2,SO2,BALN

Test Date: 05/22/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	14:30:38	497.00	14:35:38	1096.2	14:40:46	1684.6
Run 2	14:52:36	503.40	14:57:34	1105.4	15:02:35	1685.2
Run 3	15:22:38	500.60	15:27:38	1098.0	15:32:39	1684.6
Avg. Monitor Response		500.333		1099.87		1684.80
Linearity Error		0.4		0.1		1.1
Absolute Difference		2.2		0.9		19.2
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

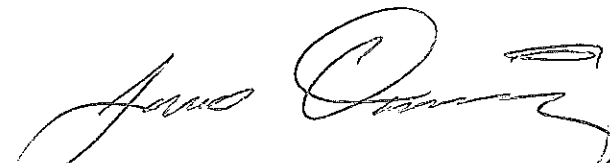
$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

5-23-13


JAMES FANNING

Linearity Test Report - 2013Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717880

Low-Level Calibration Gas Concentration: 49.400
(20-30% of Span) Cylinder No.: CC27079
(40.000 ppm - 60.000 ppm) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Mid-Level Calibration Gas Concentration: 108.30
(50-60% of Span) Cylinder No.: CC214741
(100.00 ppm - 120.00 ppm) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

High-Level Calibration Gas Concentration: 173.00
(80-100% of Span) Cylinder No.: CC127896
(160.00 ppm - 200.00 ppm) Expiration Date: 04/01/21

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Test Date: 05/21/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	14:22:40	50.600	14:27:47	107.50	14:32:48	171.10
Run 2	14:43:47	50.100	14:48:48	108.40	14:53:47	170.10
Run 3	15:08:47	50.500	15:13:33	107.70	15:18:48	170.20
Avg. Monitor Response		50.400		107.867		170.467
Linearity Error		2.0		0.4		1.5
Absolute Difference		1.0		0.4		2.5
Test Status		Pass		Pass		Pass

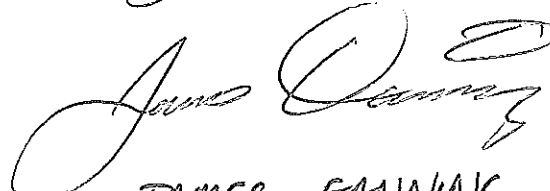
$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

5-23-13

JAMES FANNING

Linearity Test Report - 2013Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i

Serial Number: 0622717874

Low-Level Calibration Gas Concentration: 5.550
(20-30% of Span) Cylinder No.: CC27079
(4.000 % - 6.000 %) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Mid-Level Calibration Gas Concentration: 11.020
(50-60% of Span) Cylinder No.: CC214741
(10.000 % - 12.000 %) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

High-Level Calibration Gas Concentration: 17.140
(80-100% of Span) Cylinder No.: CC127896
(16.000 % - 20.000 %) Expiration Date: 04/01/21

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Test Date: 05/21/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	14:22:40	5.610	14:27:47	11.060	14:32:48	17.130
Run 2	14:43:47	5.620	14:48:48	11.070	14:53:47	17.180
Run 3	15:08:47	5.610	15:13:33	11.080	15:18:48	17.120
Avg. Monitor Response		5.613		11.070		17.143
Linearity Error		1.1		0.5		0.0
Absolute Difference		0.1		0.1		0.0
Test Status		Pass		Pass		Pass

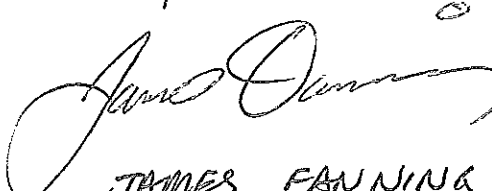
$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

5/23/13

JAMES FANNING

CGA Test Report - 2013Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 Inlet SO2 Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717883

Low-Level Calibration Gas Concentration: 498.1
(20-30% of Span) Cylinder No.: XC009831B
(400.0 ppm - 600.0 ppm) Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 1099.0
(50-60% of Span) Cylinder No.: CC151205
(1000.0 ppm - 1200.0 ppm) Expiration Date: 11/16/14

Test Date: 05/21/13

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	15:34:48	508.0	15:40:39	1095.2
Run 2	15:52:43	506.2	15:58:43	1096.8
Run 3	16:14:34	506.8	16:20:48	1101.6
Avg. Monitor Response		507.0		1097.9
Calibration Error		1.800		-0.100
Absolute Difference		8.9		1.1
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

Print Name:

Technician/Service Representative

5-23-13

CGA Test Report - 2013Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i

Serial Number: 0622717875

Low-Level Calibration Gas Concentration: 5.69
(5.00% - 8.00%) Cylinder No.: XC009831B
Expiration Date: 11/16/13

Mid-Level Calibration Gas Concentration: 11.05
(10.00% - 14.00%) Cylinder No.: CC151205
Expiration Date: 11/16/14

Test Date: 05/21/13

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	15:34:48	5.72	15:40:39	10.98
Run 2	15:52:43	5.73	15:58:43	11.01
Run 3	16:14:34	5.74	16:20:48	11.01
Avg. Monitor Response		5.73		11.00
Calibration Error		0.700		-0.500
Absolute Difference		0.04		0.05
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

Print Name:

Technician/Service Representative

5-23-13

CGA Test Report - 2013Q2

Facility Name: TES Filer City Station

Location: Filer City, MI

Blr 2 CO High Audit Test Results

Analyzer Span: 3000.00 ppm

Mfr & Model: Thermo 48l

Serial Number: 0622717888

Low-Level Calibration Gas
(20-30% of Span)
(600.00 ppm - 900.00 ppm)

Concentration: 735.70
Cylinder No: XC009831B
Expiration Date: 11/16/13

Mid-Level Calibration Gas
(50-60% of Span)
(1500.00 ppm - 1800.00 ppm)

Concentration: 1639.00
Cylinder No: CC151205
Expiration Date: 11/16/14

Test Date:

5/22/13

Tester(s) Dave Duby

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	14:29:40	733.8	14:34:40	1636.0
Run 2	14:51:37	740.0	14:56:44	1643.8
Run 3	15:21:39	735.9	15:26:39	1637.7
Avg. Monitor Response		736.6		1639.2
Absolute Difference		0.9		0.2
Calibration Error		0.12		0.01
Test Status		Pass		Pass

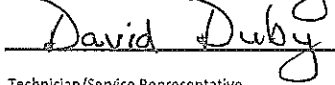
$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration} \times 100}{\text{Cal. Gas Concentration}}$$

I have personally performed the Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F Section 5.1.2 and attest that the recorded information on this document is true, accurate and complete.

Signature:



Print Name:



Technician/Service Representative

CGA Test Report - 2013Q2

Facility Name: TES Filer City Station

Location: Filer City, MI

Blr 2 CO Low Audit Test Results

Analyzer Span: 300.00 ppm

Mfr & Model: Thermo 48l

Serial Number: 0622717888

Low-Level Calibration Gas
(20-30% of Span)
(60.00 ppm - 90.00 ppm)

Concentration: 74.5
Cylinder No: CC27079
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

Mid-Level Calibration Gas
(50-60% of Span)
(150.00 ppm - 180.00 ppm)

Concentration: 164.0
Cylinder No: CC214741
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: SNCC

Test Date: 5/21/13

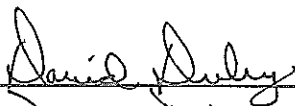
Tester(s) Dave Duby

	Low		High	
	Time	Monitor Value	Time	Monitor Value
Run 1	14:22:40	75.8	14:27:47	162.1
Run 2	14:43:35	75.4	14:48:48	162.7
Run 3	15:08:47	76.1	15:13:33	164.3
Avg. Monitor Response		75.8		163.0
Absolute Difference		1.3		1.0
Calibration Error		1.70		0.59
Test Status		Pass		Pass


$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration} \times 100}{\text{Cal. Gas Concentration}}$$

I have personally performed the Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F Section 5.1.2 and attest that the recorded information on this document is true, accurate and complete.

Signature:



Print Name:



Technician/Service Representative



IN SERVICE 0-89-12

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Airgas Great Lakes
2000 Belforo Ave.
Royal Oak, MI 48067-8020
www.airgas.com

Customer: LANSING
Part Number: E04N194E16A0013
Cylinder Number: XC009831B
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62011
Reference Number: 32-400026870-1
Cylinder Volume: 147 Cu.Ft.
Cylinder Pressure: 2015 PSIG
Valve Outlet: 600
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig (1.0 Mega Pascal)

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	500.0 PPM	498.1 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	750.0 PPM	735.7 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	5,500 %	5,692 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	0000006	CC262087	0.021% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	00060421	CC280580	501.3PPM CARBON MONOXIDE/NITROGEN	Feb 01, 2013
NTRM	08081013	CC300405	478.5PPM SULFUR DIOXIDE/NITROGEN	May 16, 2016

ANALYTICAL EQUIPMENT

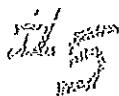
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 10% CO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 5000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 1000ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Field Data Available Upon Request

Notes:

A. F. Muhammad

Approved for Release



IN SERVICE 5-23-12

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Airgas Great Lakes
2009 Bellvue Ave.
Royal Oak, MI 48067-8020
www.airgas.com

Customer: LANSING
Part Number: E04NI88E15A1FJ0
Cylinder Number: CC151206
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62011
Reference Number: 32-400026871-1
Cylinder Volume: 151 Cu.Ft.
Cylinder Pressure: 2015 PSIG
Valve Outlet: 660
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig (i.e. 1 Mega Pascal)

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	1100 PPM	1098 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	1650 PPM	1639 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.05 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS

Type	LotID	Cylinder No	Concentration	Expiration Date
NTRM	0712609	CC239950	2478PPM SULFUR DIOXIDE/NITROGEN	Mar 23, 2017
NTRM	0060606	CC202087	0.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	020502	SG0161128BAL	1488PPM CARBON MONOXIDE/NITROGEN	May 16, 2012

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
EIN 54, 20% FS CO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
EIN 173, 5000ppmFS CO, Siemens Ultramat 6	NonDispersive Infrared (NDIR)	Oct 27, 2011
EIN 54, 4800ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

A. F. Muhammad

Approved for Release

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Airgas

IN SERVICE
Feb 21, 2012

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Airgas Great Lakes
2009 Belfaire Ave.
Royal Oak, MI 48067-8020
www.airgas.com

Customer: LANSING
Part Number: E06N194E15A0008
Cylinder Number: CC27079
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62011
Reference Number: 32-400026874-1
Cylinder Volume: 147 Cu.Ft.
Cylinder Pressure: 2016 PSIG
Valve Outlet: 860
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig (i.e. 1 Mega Pascal)

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	60.00 PPM	40.38 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	75.00 PPM	74.40 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	125.0 PPM	124.0 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	5,500 %	5,540 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

124.1 PPM

For Reference Only

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	0060306	CC262007	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	0060503	CC280417	95.86PPM CARBON MONOXIDE/NITROGEN	Feb 01, 2013
NTRM	11060216	CC281040	49.67PPM SULFUR DIOXIDE/NITROGEN	May 13, 2017
NTRM	11080138	CC332059	240.4PPM NITRIC OXIDE/NITROGEN	Jan 11, 2017

ANALYTICAL EQUIPMENT

Instrument (Make/Model)	Analytical Principle	Last Multi-point Calibration
E/N 64, 10% CO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 100ppmFS CO2, Siemens Ultramat 6	Non-dispersive Infrared (NDIR)	Oct 27, 2011
E/N 64, 260ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011
E/N 64, 160ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request : .

Notes:

A. F. Adamson



IN SERVICE 28-12

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Airgas Great Lakes
2009 Bellara Ave.
Royal Oak, MI 48067-6020
www.airgas.com

Customer: LANSING
Part Number: E05NI88E16A0016
Cylinder Number: CC214741
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62011

Reference Number: 32-400026873-1
Cylinder Volume: 151 Cu.Ft.
Cylinder Pressure: 2015 PSIG
Valve Outlet: 660
Analysis Date: Nov 19, 2011

Expiration Date: Nov 10, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig, i.e., 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	110.0 PPM	108.3 PPM	G1	±1-1% NIST Traceable
CARBON MONOXIDE	165.0 PPM	164.0 PPM	G1	±1-1% NIST Traceable
NITRIC OXIDE	275.0 PPM	275.0 PPM	G1	±1-1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.02 %	G1	±1-1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

275.0 PPM

For Reference Only

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	08060311	CC254043	250.0PPM CARBON MONOXIDE/NITROGEN	May 15, 2012
NTRM	08061635	CC255794	247.0PPM SULFUR DIOXIDE/NITROGEN	Oct 16, 2012
NTRM	08060800	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	10060121	CC268177	495.6PPM NITRIC OXIDE/NITROGEN	Feb 01, 2010

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
EIN 54, 20% FS CO ₂ , Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
EIN 173, 250ppmFS CO, Siemens	Nondispersive Infrared (NDIR)	Nov 16, 2011
EIN 54, 1000 ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011
EIN 54, 1000ppmFS SO ₂ , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Trace Data Available Upon Request

Notes:

Page 1 of 32-400026873-1

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer: LANSING
 Part Number: E05NI82E15A0001
 Cylinder Number: CC127896
 Laboratory: MIC - Royal Oak-32 (SAP) - MI
 PGVP Number: B62013
 Gas Code: CO,CO2,NO,SO2
 Reference Number: 32-400171140-1
 Cylinder Volume: 154.6 CF
 Cylinder Pressure: 2015 PSIG
 Valve Outlet: 660
 Certification Date: Apr 01, 2013

Expiration Date: Apr 01, 2021

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	425.0 PPM	413.6 PPM	G1	+/- 1% NIST Traceable	03/25/2013, 04/01/2013
SULFUR DIOXIDE	170.0 PPM	173.0 PPM	G1	+/- 1% NIST Traceable	03/25/2013, 04/01/2013
CARBON MONOXIDE	255.0 PPM	248.1 PPM	G1	+/- 1% NIST Traceable	03/25/2013
NITRIC OXIDE	425.0 PPM	413.6 PPM	G1	+/- 1% NIST Traceable	03/25/2013, 04/01/2013
CARBON DIOXIDE	17.00 %	17.14 %	G1	+/- 0.7% NIST Traceable	03/25/2013
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	97040304	CC66837	2349 PPM SULFUR DIOXIDE/NITROGEN	+/- 1.0%	Oct 05, 2017
PRM	12312	680179	10.01 PPM NITROGEN DIOXIDE/NITROGEN	+/- 2.0%	Feb 14, 2012
NTRM	97040304	CC343231	241.0 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.8%	May 13, 2017
NTRM	12060312	CC353943	249.3 PPM CARBON MONOXIDE/NITROGEN	+/- 0.4%	Oct 26, 2017
NTRM	120619	CC359547	500.7 PPM NITRIC OXIDE/NITROGEN	+/- 0.4%	Feb 16, 2018
NTRM	120619	CC367584	250.8 PPM NITRIC OXIDE/NITROGEN	+/- 0.5%	May 04, 2018
GMIS	124206889129	CC323208	4.826 PPM NITROGEN DIOXIDE/NITROGEN	+/- 2.0%	May 03, 2014
NTRM	12061523	CC354781	19.87 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 27, 2018

The SRM or PRM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO2, Nicolet 6700	FTIR	Mar 22, 2013
E/N 54, 1000ppm CO, Nicolet 6700	FTIR	Mar 22, 2013
E/N 54, 1000 ppmFS NO, Nicolet 6700	FTIR	Mar 22, 2013
E/N 54, 4ppm FS NO2, Nicolet 6700	(FTIR)	Mar 06, 2013
E/N 54, 250ppmFS SO2, Nicolet 6700	(FTIR)	Mar 22, 2013

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Airgas USA, LLC

2009 Bellaire Ave
Royal Oak, MI 48067
(1)-248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer: TES Filer City Station
Part Number: E04NI82E15A3LD7
Cylinder Number: SG9148061BAL
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62013
Gas Code: CO,CO₂,SO₂

Reference Number: 32-400165658-1
Cylinder Volume: 154.8 CF
Cylinder Pressure: 2015 PSIG
Valve Outlet: 660
Certification Date: Mar 27, 2013

Expiration Date: Mar 27, 2021

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

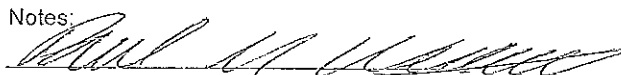
ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	1700 PPM	1704 PPM	G1	+/- 1.0% NIST Traceable	03/20/2013, 03/27/2013
CARBON MONOXIDE	2550 PPM	2528 PPM	G1	+/- 1% NIST Traceable	03/20/2013
CARBON DIOXIDE	17.00 %	17.08 %	G1	+/- 1% NIST Traceable	03/20/2013
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	97040304	CC66837	2349 PPM SULFUR DIOXIDE/NITROGEN	+/- 1.0%	Oct 05, 2017
NTRM	12060739	CC356228	2498 PPM CARBON MONOXIDE/NITROGEN	+/- 0.6%	Dec 21, 2017
NTRM	12061523	CC354781	19.87 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 27, 2018

ANALYTICAL EQUIPMENT					
Instrument/Make/Model		Analytical Principle		Last Multipoint Calibration	
E/N 54, 20% FS CO ₂ , Nicolet 6700		Fourier Transform Infrared (FTIR)		Feb 21, 2013	
E/N 173, 10000ppmFS CO, Siemens Ultramat 6		Nondispersive Infrared (NDIR)		Mar 01, 2013	
E/N 54, 4800ppmFS SO ₂ , Nicolet 6700		Fourier Transform Infrared (FTIR)		Mar 22, 2013	

Triad Data Available Upon Request

Notes:


Approved for Release

October 29, 2013

Mr. Shane Nixon
Michigan Department of Environmental Quality
Air Quality Division
120 W. Chapin Street
Cadillac, MI 49601-2158

SUBJECT: THIRD QUARTER 2013 EMISSIONS MONITORING REPORT

Dear Mr. Nixon:

Enclosed is the Third Quarter 2013 emissions monitoring report for Boilers No. 1 and No. 2 at the T.E.S. Filer City Station (Renewable Operating Permit No. ROP MI-ROP-N1685-2008b). The report includes all information required under Federal Standards of Performance for New Stationary Sources (40 CFR 60, Subparts A, Da, and Appendix F).

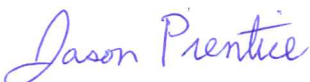
This quarterly report contains the Excess Emissions Reports (EERs) and Summary Reports for Boilers No. 1 and No. 2. Please note that this quarterly report does not include the results of linearity tests conducted in accordance with 40 CFR Part 75, Appendices A and B, or cylinder gas audits (CGAs) conducted in accordance with 40 CFR Part 60, Appendix F, as Relative Accuracy Test Audits (RATAs) of the inlet and outlet monitoring systems were performed in August of 2013. A copy of the RATA report was sent to Ms. Karen Kajiya-Mills of the MDEQ-AQD within 45 days of completing the tests.

Also included in this report are the results of Boilers No. 1 and No. 2 opacity monitor audits conducted in accordance with the US EPA Publication "*Technical Assistance Document – Performance Audit Procedures for Opacity Monitors*", EPA 450/4-92-010. These audits are required as part of the Boilers No. 1 and No. 2 Compliance Assurance Monitoring Plan under 40 CFR Part 64.

In accordance with Section 4.7.2 of the C/D Waste Wood Monitoring Plan dated September 20, 2012, a quarterly report detailing the quantities and sampling results for C/D wood waste will only be submitted if such materials are received within the calendar quarter. No such materials were received during the 3rd quarter 2013, so this quarterly report does not contain any information on C/D waste wood shipments.

Please contact me at (517) 788-1467 or Mr. Richard Brown of TES Filer City Station at (231) 723-6573, Extension 103, if you have any questions or require further information concerning the contents of this quarterly report.

Sincerely,



Jason Prentice
Environmental Planner
Consumers Energy Company

cc: Richard Brown, TES Filer City Station
Karen Kajiya-Mills, MDEQ-AQD
Filer City Compliance File-Q, SA, A File



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

**RENEWABLE OPERATING PERMIT
REPORT CERTIFICATION**

Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Environmental Quality, Air Quality Division upon request.

Source Name T.E.S. Filer City Station County Manistee

Source Address P.O. Box 12 / 700 Mee Street City Filer City

AQD Source ID (SRN) N1685 ROP No. MI-ROP-N1685-2008b ROP Section No. N/A

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From _____ To _____

- ☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.
- ☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From _____ To _____

- ☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.
- ☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 07/01/2013 To 09/30/2013

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

Boilers 1 and 2 Quarterly Report for the 3rd Quarter of 2013 (July – September).

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

Randal R. Lindeman Operations Superintendent 231-723-6573
Name of Responsible Official (print or type) Title Phone Number

Randal R. Lindeman
Signature of Responsible Official

10-28-13
Date

T.E.S. FILER CITY STATION

CONTINUOUS EMISSION MONITORING QUARTERLY REPORT

SUBPART Da
(NSPS SOURCES)

Year 2013

Report Period Ending: **March 31** **June 30** **Sept. 30** **X** **Dec. 31**

I. GENERAL INFORMATION

1. Source: T.E.S. FILER CITY STATION
2. Address: 700 MEE STREET
FILER CITY, MICHIGAN 49634
3. Plant Phone Number: (231) 723-6573
4. Affected Facility: BOILER #1 X BOILER #2 X
5. Control Device(s): GEESI/DRY FLUE GAS DESULFERIZATION SYSTEM
GEESI/FABRIC FILTER BAGHOUSES
6. Fuel Type: Coal/Wood/TDF/Petroleum Coke/Construction & Demolition (C/D) Waste
(NOTE: Although allowed by permit, C/D wastes were not fired during the quarter)
7. Person Completing Report

(Print) Jason M. Prentice

(Signature) Jason M. Prentice

(Date) 10-29-13

This is to certify that, to the best of my knowledge, the information provided on these forms is correct and accurate.

8. Person Responsible For Review and Integrity of Report:

(Print) Randal R. Lindeman

(Signature) Rashid Khan

(Date) 10-28-13

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO ₂	INLET #2 SO ₂	STACK #1 SO ₂	STACK #2 SO ₂	STACK #1 NO _x	STACK #2 NO _x	STACK #1 CO	STACK #2 CO	INLET # 1 CO ₂	INLET # 2 CO ₂	STACK # 1 CO ₂	STACK # 2 CO ₂
1. MFG:	Durag, Inc.	Durag, Inc.	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹
2. MODEL NO:	D-R 290	D-R 290	43i	43i	43i	43i	42i	42i	48i	48i	410i	410i	410i	410i
3. SERIAL NO:	425692	425693	0622717879	0622717883	0622717877	0622717880	0623017966	0623017967	0622717887	0622717888	0622717873	0622717875	0622717869	0622717874
4. Basis for Gas Measurement (wet or dry)	N / A	N / A	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET
5. F-Factor Used	N / A	N / A	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	N / A	N / A	N / A	N / A

¹ T. E. I. standards for Thermo Environmental Instruments, Inc.

6. F-Factor Method: Fuel Analyses and Method 19, Equation 19-15 and/or Method 19, Table 19-2. Please note that the fuel factors are unit specific and are based upon the relative amounts (on a heat input basis) of coal, wood, petroleum coke and tire-derived-fuel (TDF) that are fired within a given time period.

7. Ave. Time	6 Minute	6 Minute	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour
--------------	----------	----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

8. Zero/Span
Values

ZERO	0 %	0 %	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 %	0 %	0 %	0 %
SPAN	45 %	45 %	2,000 PPM	2,000 PPM	H: 1,500 PPM ¹ L: 200 PPM ¹	H: 1,500 PPM ¹ L: 200 PPM ¹	500 PPM	500 PPM	H: 3,000 PPM ² L: 300 PPM ²	H: 3,000 PPM ² L: 300 PPM ²	20.0 %	20.0 %	20.0 %	20.0 %

¹ The span values for the SO₂ Stack CEMS were revised from 2,000 ppm for the high span and 500 ppm for the low span just prior to the September 2008 Part 75 certification tests. The revised high and low span values were determined in accordance with sections 2.1.1.3 and 2.1.1.4 of Appendix A to 40 CFR Part 75.

² The historic span value for each of the CO Stack CEMS was 500 ppm (with a full scale of 2,050 ppm). In May of 2012, the plant implemented dual ranges for each CO CEMS, with a low range span value of 300 ppm and a high range span value of 3,000 ppm.

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

9. Date of Last Performance Specification Test Passed	Monitoring System	RATA	7-Day Calibration Drift Test	Cycle-time Test	COMS Field Audit Test	COMS 168-hr Operational Test
	Boiler 1 Gas CEMS	08/20/2013	10/31/2006 (Stk SO ₂ = 09/25/08)	10/18/2006 (Stk SO ₂ = 10/03/08)	N/A	N/A
	Boiler 1 COMS	N/A	N/A	N/A	08/21/2013	10/26/2006
	Boiler 2 Gas CEMS	08/21/2013	10/31/2006 (Stk SO ₂ = 09/25/08)	10/23/2006 (Stk SO ₂ = 10/03/08)	N/A	N/A
	Boiler 2 COMS	N/A	N/A	N/A	08/21/2013	11/01/2006

10. Modification Since Last PST Date (10-06; 9-08)	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 2 CO2	INLET # 2 CO2	STACK #1 CO2	STACK # 2 CO2
	NONE	NONE	NONE	NONE	NONE (Changed high & low span vals in 2008)	NONE (Changed high & low span vals in 2008)	NONE	NONE	NONE (Went to dual range as of 5-2012)	NONE (Went to dual range as of 5-2012)	NONE	NONE	NONE	NONE

11. Emission Limits (Averaging Period)	10 % (6-Min)	10 % (6-Min)	N / A	N / A	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.3 lb/mm Btu (24-Hour)	0.3 lb/mm Btu (24-Hour)	N / A	N / A	N / A	N / A

T.E.S. FILER CITY STATION**III. MONITORING AND COMPLIANCE SUMMARY (per 40 CFR 60.51a(h))**

	<u>YES</u>	<u>NO</u>	<u>REF.</u>
1. Were the required continuous monitoring systems calibrated, span, and drift checks or other periodic audits performed as specified?	<u>X</u>	<u> </u>	<u> </u>
2. Were the data used to show compliance obtained in accordance with approved methods and procedures of Subpart Da?	<u>X</u>	<u> </u>	<u> </u>
3. Are the data representative of plant performance?	<u>X</u>	<u> </u>	<u> </u>
4. Were the minimum data requirements met? If no, were they not met due to unavoidable errors?	<u>X</u>	<u> </u>	<u> </u>
5. Was compliance with the standards achieved during the reporting period?	<u> </u>	<u>X</u>	<u> </u>
<u>Boiler #1</u>			
SO ₂ Stack Limit 0.7 lb/MMBTU 24 Hour	<u>X</u>	<u> </u>	<u> </u>
SO ₂ Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
SO ₂ 90% Reduction 30 Day	<u>X</u>	<u> </u>	<u> </u>
NO _x Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
Opacity Limit >10% 6 Minute Average	<u>X</u>	<u> </u>	<u> </u>
<u>Boiler #2</u>			
SO ₂ Stack Limit 0.7 lb/MMBTU 24 Hour	<u>X</u>	<u> </u>	<u> </u>
SO ₂ Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
SO ₂ 90% Reduction 30 Day	<u>X</u>	<u> </u>	<u> </u>
NO _x Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
Opacity Limit >10% 6 Minute Average	<u> </u>	<u>X</u>	<u> </u>

T.E.S. FILER CITY STATION**V. EXCESS EMISSION REPORT - SO₂ AND NO_x****SO₂ EVENTS (30 Day Rolling Average Limit of 0.5 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

SO₂ EVENTS (24 Hour Average Limit of 0.7 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

SO₂ EVENTS (30 Day Rolling Average Limit of SO₂ Percent Reduction: Limit=90%)

Date(s) Occurred	Boiler No.	Value (% removal)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NO_x EVENTS (30 Day Rolling Average Limit of 0.60 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

OPACITY EVENTS (Excess Emission Notification >10%, 6-Min. Average, for ≥ 2 Hours)

Date(s) Occurred	Boiler No.	Value (% opacity)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NOTE: All six minute periods during which the average opacity exceeds 10% are identified in the attached monthly "Excess Emissions Report" for Boiler #1 and Boiler #2.

T.E.S. FILER CITY STATION**VI. QUALITY ASSURANCE DATA****1a. OUT-OF-CONTROL ASSESSMENT INFORMATION****BOILER # 1****INLET CO₂ METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717873	None	N / A	N / A

STACK CO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717869	None	N / A	N / A

INLET SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

STACK SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

T.E.S. FILER CITY STATION

STACK NO_x METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017966	None	N / A	N / A

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425692	None	N / A	N / A

2a. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #1

Date(s) Occurred	Description	Corrective Action

3a. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 1 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Daily Calibration Error Tests, Cylinder Gas Audits (CGAs), Linearity Tests or Relative Accuracy Test Audits (RATAs).

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled “Downtime Report”. The information provided in Section VI.1a of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

T.E.S. FILER CITY STATION**1b. OUT-OF-CONTROL ASSESSMENT INFORMATION****BOILER # 2****INLET CO₂ METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717875	None	N / A	N / A

STACK CO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717874	None	N / A	N / A

INLET SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717883	None	N / A	N / A

STACK SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717880	None	N / A	N / A

T.E.S. FILER CITY STATION

STACK NO_x METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017967	None	N / A	N / A

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425693	None	N / A	N / A

2b. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #2

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

3b. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 2 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Daily Calibration Error Tests, Cylinder Gas Audits (CGAs), Linearity Tests or Relative Accuracy Test Audits (RATAs).

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled “Downtime Report”. The information provided in Section VI.1b of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

T.E.S. FILER CITY STATION

4. Full Scale Exceedance: Identification of times when pollutant concentration exceeds full span of the continuous monitoring system.

Date(s) Occurred	Boiler No.	Description	Corrective Action
None	1	N / A	N / A
None	2	N / A	N / A

TES FILER CITY STATION AIR EMISSION SUMMARY

JULY 2013

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44640 /	44640	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.99%			99.76%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44640 /	44640	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.98%			99.54%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION AIR EMISSION SUMMARY

AUGUST 2013

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44640 /	44640	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.99%			99.79%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44640 /	44640	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.98%			99.60%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION AIR EMISSION SUMMARY

SEPTEMBER 2013

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	12594 /	12594	100.00%	174.0 /	174.0	100.00%	174.0 /	174.0	100.00%	174.0 /	174.0	100.00%	174.0 /	174.0	100.00%
YTD			99.99%			99.80%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	21858 /	21870	99.95%	192.0 /	192.0	100.00%	192.0 /	192.0	100.00%	192.0 /	192.0	100.00%	192.0 /	192.0	100.00%
YTD			99.98%			99.61%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION AIR EMISSION SUMMARY

3rd QUARTER 2013

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
JUL	44,640 /	44,640	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%
AUG	44,640 /	44,640	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%
SEP	12,594 /	12,594	100.00%	174 /	174	100.00%	174 /	174	100.00%	174 /	174	100.00%	174 /	174	100.00%
3 rd Quarter	101,874 /	101,874	100.00%	1,662 /	1,662	100.00%	1,662 /	1,662	100.00%	1,662 /	1,662	100.00%	1,662 /	1,662	100.00%
YTD			99.99%			99.80%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
JUL	44,640 /	44,640	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%
AUG	44,640 /	44,640	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%	744 /	744	100.00%
SEP	21,858 /	21,870	99.95%	192 /	192	100.00%	192 /	192	100.00%	192 /	192	100.00%	192 /	192	100.00%
3 rd Quarter	111,138 /	111,150	99.99%	1,680 /	1,680	100.00%	1,680 /	1,680	100.00%	1,680 /	1,680	100.00%	1,680 /	1,680	100.00%
YTD			99.98%			99.61%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

CEMS Daily Averages - 07/01/13 To 09/30/13

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Period: 07/01/13 00:00:00 To 09/30/13 23:59:59; Records = 92

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
07/01/13	24		0.404	30	0.116	24	0.146	30	93.39	30	1.13	24
07/02/13	24		0.405	30	0.122	24	0.145	30	93.42	30	1.35	24
07/03/13	24		0.406	30	0.088	24	0.144	30	93.51	30	0.99	24
07/04/13	24		0.407	30	0.146	24	0.145	30	93.44	30	1.44	24
07/05/13	24		0.409	30	0.165	24	0.147	30	93.34	30	1.58	24
07/06/13	24		0.410	30	0.191	24	0.149	30	93.24	30	1.85	24
07/07/13	24		0.411	30	0.162	24	0.149	30	93.27	30	1.52	24
07/08/13	24		0.411	30	0.110	24	0.147	30	93.38	30	1.13	24
07/09/13	24		0.412	30	0.105	24	0.144	30	93.50	30	1.27	24
07/10/13	24		0.413	30	0.122	24	0.143	30	93.55	30	1.20	24
07/11/13	24		0.415	30	0.180	24	0.143	30	93.54	30	1.78	24
07/12/13	24		0.416	30	0.142	24	0.143	30	93.56	30	1.55	24
07/13/13	24		0.417	30	0.159	24	0.142	30	93.59	30	1.72	24
07/14/13	24		0.418	30	0.109	24	0.141	30	93.63	30	1.29	24
07/15/13	24		0.419	30	0.155	24	0.143	30	93.53	30	1.47	24
07/16/13	24		0.421	30	0.161	24	0.144	30	93.49	30	1.42	24
07/17/13	24		0.422	30	0.184	24	0.146	30	93.40	30	1.59	24
07/18/13	24		0.424	30	0.190	24	0.147	30	93.36	30	1.66	24
07/19/13	24		0.423	30	0.165	24	0.146	30	93.38	30	1.55	24
07/20/13	24		0.423	30	0.151	24	0.146	30	93.40	30	1.53	24
07/21/13	24		0.424	30	0.158	24	0.147	30	93.34	30	1.50	24
07/22/13	24		0.426	30	0.166	24	0.148	30	93.31	30	1.63	24
07/23/13	24		0.428	30	0.205	24	0.149	30	93.26	30	1.96	24
07/24/13	24		0.430	30	0.204	24	0.152	30	93.19	30	2.03	24
07/25/13	24		0.432	30	0.194	24	0.153	30	93.13	30	1.86	24
07/26/13	24		0.432	30	0.203	24	0.155	30	93.06	30	1.95	24
07/27/13	24		0.433	30	0.204	24	0.157	30	92.96	30	1.98	24
07/28/13	24		0.434	30	0.187	24	0.158	30	92.93	30	1.66	24
07/29/13	24		0.435	30	0.148	24	0.158	30	92.96	30	1.60	24
07/30/13	24		0.434	30	0.212	24	0.160	30	92.86	30	1.91	24
07/31/13	24		0.434	30	0.238	24	0.164	30	92.71	30	1.98	24
08/01/13	24		0.433	30	0.152	24	0.165	30	92.68	30	1.55	24
08/02/13	24		0.433	30	0.178	24	0.168	30	92.55	30	1.67	24
08/03/13	24		0.433	30	0.127	24	0.167	30	92.60	30	1.36	24
08/04/13	24		0.433	30	0.128	24	0.166	30	92.65	30	1.33	24
08/05/13	24		0.432	30	0.138	24	0.164	30	92.72	30	1.45	24
08/06/13	24		0.432	30	0.126	24	0.163	30	92.72	30	1.19	24

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
08/07/13	24		0.432	30	0.165	24	0.165	30	92.64	30	1.53	24
08/08/13	24		0.432	30	0.243	24	0.170	30	92.46	30	2.73	24
08/09/13	24		0.432	30	0.183	24	0.172	30	92.38	30	1.92	24
08/10/13	24		0.432	30	0.151	24	0.171	30	92.44	30	1.61	24
08/11/13	24		0.431	30	0.130	24	0.170	30	92.48	30	1.35	24
08/12/13	24		0.431	30	0.152	24	0.170	30	92.50	30	1.37	24
08/13/13	24		0.432	30	0.147	24	0.171	30	92.46	30	1.56	24
08/14/13	24		0.433	30	0.179	24	0.172	30	92.43	30	1.74	24
08/15/13	24		0.433	30	0.190	24	0.173	30	92.40	30	1.79	24
08/16/13	24		0.434	30	0.164	24	0.173	30	92.43	30	1.68	24
08/17/13	24		0.434	30	0.157	24	0.171	30	92.48	30	1.59	24
08/18/13	24		0.436	30	0.147	24	0.171	30	92.50	30	1.55	24
08/19/13	24		0.437	30	0.146	24	0.171	30	92.50	30	1.47	24
08/20/13	24		0.438	30	0.153	24	0.171	30	92.50	30	1.52	24
08/21/13	24		0.439	30	0.168	24	0.171	30	92.49	30	1.77	24
08/22/13	24		0.439	30	0.178	24	0.170	30	92.51	30	1.81	24
08/23/13	24		0.439	30	0.145	24	0.168	30	92.58	30	1.58	24
08/24/13	24		0.440	30	0.176	24	0.167	30	92.58	30	1.74	24
08/25/13	24		0.440	30	0.155	24	0.165	30	92.65	30	1.51	24
08/26/13	24		0.440	30	0.181	24	0.165	30	92.70	30	1.65	24
08/27/13	24		0.440	30	0.162	24	0.164	30	92.73	30	1.47	24
08/28/13	24		0.440	30	0.159	24	0.164	30	92.71	30	1.73	24
08/29/13	24		0.441	30	0.130	24	0.162	30	92.83	30	1.42	24
08/30/13	24		0.442	30	0.188	24	0.160	30	92.87	30	1.79	24
08/31/13	24		0.443	30	0.172	24	0.161	30	92.81	30	1.80	24
09/01/13	24		0.444	30	0.220	24	0.162	30	92.74	30	2.16	24
09/02/13	24		0.445	30	0.202	24	0.164	30	92.61	30	1.82	24
09/03/13	24		0.447	30	0.173	24	0.166	30	92.53	30	1.71	24
09/04/13	24		0.448	30	0.057	24	0.163	30	92.65	30	0.68	24
09/05/13	24		0.449	30	0.052	24	0.161	30	92.82	30	0.68	24
09/06/13	24		0.451	30	0.060	24	0.157	30	92.97	30	0.71	24
09/07/13	20		0.451	30	0.047	20	0.157	30	92.97	30	0.55	24
09/08/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	15
09/09/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/10/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/11/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/12/13	2		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/13/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/14/13	8		0.451	30	0.684	07	0.157	30	92.97	30	0.00	00
09/15/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/16/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00

Date	Operating Hours	NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS	30-Day		24-Hr		30-Day		30-Day		SO2	
		lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
09/17/13	0	0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/18/13	0	0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/19/13	0	0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/20/13	0	0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/21/13	0	0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/22/13	0	0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/23/13	0	0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/24/13	0	0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/25/13	0	0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/26/13	0	0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/27/13	0	0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/28/13	0	0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/29/13	0	0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
09/30/13	0	0.451	30	0.000	00	0.157	30	92.97	30	0.00	00

CEMS Daily Averages - 07/01/13 To 09/30/13

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Period: 07/01/13 00:00:00 To 09/30/13 23:59:59; Records = 92

Date	Operating Hours		NOx		SO2		SO2		SO2	
	CEMS		30-Day		24-Hr		30-Day		30-Day	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld
07/01/13	24		0.390	30	0.113	24	0.150	30	93.11	30
07/02/13	24		0.391	30	0.150	24	0.149	30	93.16	30
07/03/13	24		0.390	30	0.112	24	0.147	30	93.24	30
07/04/13	24		0.390	30	0.144	24	0.147	30	93.23	30
07/05/13	24		0.390	30	0.153	24	0.148	30	93.18	30
07/06/13	24		0.389	30	0.183	24	0.150	30	93.11	30
07/07/13	24		0.389	30	0.142	24	0.148	30	93.21	30
07/08/13	24		0.388	30	0.113	24	0.146	30	93.32	30
07/09/13	24		0.388	30	0.151	24	0.144	30	93.40	30
07/10/13	24		0.388	30	0.124	24	0.143	30	93.45	30
07/11/13	24		0.389	30	0.181	24	0.143	30	93.43	30
07/12/13	24		0.390	30	0.171	24	0.144	30	93.40	30
07/13/13	24		0.390	30	0.189	24	0.144	30	93.39	30
07/14/13	24		0.390	30	0.151	24	0.144	30	93.38	30
07/15/13	24		0.390	30	0.141	24	0.145	30	93.36	30
07/16/13	24		0.391	30	0.143	24	0.146	30	93.32	30
07/17/13	24		0.392	30	0.142	24	0.146	30	93.29	30
07/18/13	24		0.393	30	0.188	24	0.147	30	93.25	30
07/19/13	24		0.392	30	0.154	24	0.147	30	93.27	30
07/20/13	24		0.392	30	0.163	24	0.147	30	93.27	30
07/21/13	24		0.392	30	0.151	24	0.147	30	93.27	30
07/22/13	24		0.393	30	0.170	24	0.148	30	93.26	30
07/23/13	24		0.395	30	0.200	24	0.149	30	93.21	30
07/24/13	24		0.396	30	0.212	24	0.152	30	93.10	30
07/25/13	24		0.397	30	0.186	24	0.154	30	93.03	30
07/26/13	24		0.397	30	0.199	24	0.156	30	92.94	30
07/27/13	24		0.398	30	0.206	24	0.159	30	92.82	30
07/28/13	24		0.398	30	0.154	24	0.159	30	92.82	30
07/29/13	24		0.397	30	0.176	24	0.160	30	92.79	30
07/30/13	24		0.397	30	0.176	24	0.161	30	92.74	30
07/31/13	24		0.395	30	0.166	24	0.163	30	92.67	30
08/01/13	24		0.395	30	0.165	24	0.164	30	92.66	30
08/02/13	24		0.396	30	0.160	24	0.165	30	92.59	30
08/03/13	24		0.396	30	0.147	24	0.165	30	92.59	30
08/04/13	24		0.397	30	0.138	24	0.165	30	92.61	30
08/05/13	24		0.397	30	0.155	24	0.164	30	92.65	30
08/06/13	24		0.397	30	0.116	24	0.163	30	92.69	30

Date	Operating Hours		NOx		SO2		SO2		SO2		
	CEMS		30-Day	Vld	24-Hr	Vld	30-Day	Vld	30-Day	Vld	
			lb/mmBt		lb/mmBt		lb/mmBt		% Red.		
08/07/13	24		0.398	30	0.143	24	0.164	30	92.66	30	0.00
08/08/13	24		0.399	30	0.311	24	0.169	30	92.46	30	0.00
08/09/13	24		0.399	30	0.199	24	0.172	30	92.35	30	0.00
08/10/13	24		0.399	30	0.173	24	0.172	30	92.39	30	0.00
08/11/13	24		0.399	30	0.142	24	0.171	30	92.45	30	0.00
08/12/13	24		0.399	30	0.122	24	0.168	30	92.56	30	0.00
08/13/13	24		0.400	30	0.170	24	0.169	30	92.56	30	0.00
08/14/13	24		0.401	30	0.175	24	0.170	30	92.52	30	0.00
08/15/13	24		0.401	30	0.169	24	0.171	30	92.48	30	0.00
08/16/13	24		0.401	30	0.173	24	0.172	30	92.42	30	0.00
08/17/13	24		0.400	30	0.161	24	0.171	30	92.46	30	0.00
08/18/13	24		0.401	30	0.166	24	0.171	30	92.44	30	0.00
08/19/13	24		0.401	30	0.148	24	0.171	30	92.45	30	0.00
08/20/13	24		0.402	30	0.154	24	0.171	30	92.44	30	0.00
08/21/13	24		0.405	30	0.190	24	0.172	30	92.39	30	0.00
08/22/13	24		0.405	30	0.186	24	0.171	30	92.39	30	0.00
08/23/13	24		0.406	30	0.171	24	0.170	30	92.43	30	0.00
08/24/13	24		0.406	30	0.171	24	0.169	30	92.44	30	0.00
08/25/13	24		0.407	30	0.147	24	0.168	30	92.52	30	0.00
08/26/13	24		0.408	30	0.150	24	0.166	30	92.61	30	0.00
08/27/13	24		0.408	30	0.134	24	0.165	30	92.65	30	0.00
08/28/13	24		0.409	30	0.190	24	0.166	30	92.63	30	0.00
08/29/13	24		0.411	30	0.154	24	0.165	30	92.64	30	0.00
08/30/13	24		0.411	30	0.172	24	0.165	30	92.62	30	0.00
08/31/13	24		0.411	30	0.193	24	0.166	30	92.57	30	0.00
09/01/13	24		0.411	30	0.219	24	0.168	30	92.49	30	0.00
09/02/13	24		0.412	30	0.199	24	0.170	30	92.40	30	0.00
09/03/13	24		0.413	30	0.173	24	0.171	30	92.35	30	0.00
09/04/13	24		0.414	30	0.079	24	0.168	30	92.47	30	0.00
09/05/13	24		0.417	30	0.083	24	0.167	30	92.52	30	0.00
09/06/13	24		0.418	30	0.081	24	0.165	30	92.61	30	0.00
09/07/13	24		0.418	30	0.087	24	0.158	30	92.91	30	0.00
09/08/13	15		0.418	30	0.427	15	0.158	30	92.91	30	0.00
09/09/13	0		0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/10/13	0		0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/11/13	0		0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/12/13	1		0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/13/13	0		0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/14/13	8		0.418	30	0.041	06	0.158	30	92.91	30	0.00
09/15/13	0		0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/16/13	0		0.418	30	0.000	00	0.158	30	92.91	30	0.00

Date	Operating Hours	NOx		SO2		SO2		SO2		
	CEMS	30-Day	Vld	24-Hr	Vld	30-Day	Vld	30-Day	Vld	
		lb/mmBt		lb/mmBt		lb/mmBt		% Red.		
09/17/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/18/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/19/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/20/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/21/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/22/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/23/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/24/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/25/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/26/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/27/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/28/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/29/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
09/30/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 Opacity

Emission Limitation: 10

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 16979 periods

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	%
		Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	10	0.06
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	10	0.06

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess
		Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice
NAME

Jason M. Prentice
SIGNATURE

Env. Planner
TITLE

10-29-13
DATE
TESFiler0002602

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 NOx lb/mmBtu 30-Day

Emission Limitation: 0.60

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/20/13

Total Source Operating Time in Reporting Period: 1662 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
		%	
		Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:			
1. Monitor Equipment Malfunctions		1	0.06
2. Non-Monitor CEMS Equipment Malfunction		0	0.00
3. Calibration/QA		1	0.06
4. Other Known Causes		0	0.00
5. Unknown Causes		0	0.00
2. Total CEMS Downtime		2	0.12

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:		
	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice
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10-29-13
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TESFiler0002603

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO₂ lb/mmBtu 24-Hr

Emission Limitation: 0.7

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/20/13

Total Source Operating Time in Reporting Period: 1662 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	1	0.06
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.06

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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10-29-13
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TESFiler0002604

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO₂ lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/20/13

Total Source Operating Time in Reporting Period: 1662 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
		Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:			
1. Monitor Equipment Malfunctions		0	0.00
2. Non-Monitor CEMS Equipment Malfunction		0	0.00
3. Calibration/QA		1	0.06
4. Other Known Causes		0	0.00
5. Unknown Causes		0	0.00
2. Total CEMS Downtime		1	0.06

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:		% Excess Emissions(2)
	Duration	
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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10-29-13
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TESFiler0002605

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO₂ Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/20/13

Total Source Operating Time in Reporting Period: 1662 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
			%
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)	
1. Monitor Equipment Malfunctions	1	0.06	
2. Non-Monitor CEMS Equipment Malfunction	0	0.00	
3. Calibration/QA	0	0.00	
4. Other Known Causes	0	0.00	
5. Unknown Causes	0	0.00	
2. Total CEMS Downtime	1	0.06	

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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TESFiler0002606

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boilers Total SO₂ Tons

Emission Limitation: 6.45

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boilers

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 1681 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

		%
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)
1. Monitor Equipment Malfunctions	7	0.42
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	1	0.06
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	8	0.48

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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TESFiler0002607

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 CO lb/mmBtu 24-Hr

Emission Limitation: 0.3

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/20/13

Total Source Operating Time in Reporting Period: 1662 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
		Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:			
1. Monitor Equipment Malfunctions		0	0.00
2. Non-Monitor CEMS Equipment Malfunction		0	0.00
3. Calibration/QA		1	0.06
4. Other Known Causes		0	0.00
5. Unknown Causes		0	0.00
2. Total CEMS Downtime		1	0.06

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	3	0.18
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	3	0.18

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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TESFiler0002608

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/20/13

Total Source Operating Time in Reporting Period: 1662 hours

CEMS Performance Summary	Total CEMS Downtimes including exemptions	
	%	
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	10	0.60
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	10	0.60

Durations in hours

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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TESFiler0002609

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 Opacity

Emission Limitation: 10

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 18525 periods

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
		Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:			
1. Monitor Equipment Malfunctions		30	0.16
2. Non-Monitor CEMS Equipment Malfunction		0	0.00
3. Calibration/QA		21	0.11
4. Other Known Causes		0	0.00
5. Unknown Causes		0	0.00
2. Total CEMS Downtime		51	0.28

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	2	0.01
2. Total duration of excess emissions.....	2	0.01

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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10-29-13
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TESFiler0002610

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 NOx lb/mmBtu 30-Day

Emission Limitation: 0.60

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 1680 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	%
		Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess
		Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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10-29-13
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TESFiler0002611

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO₂ lb/mmBtu 24-Hr

Emission Limitation: 0.7

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 1680 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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10-29-13
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TESFiler0002612

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO₂ lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 1680 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
		Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:			
1. Monitor Equipment Malfunctions		0	0.00
2. Non-Monitor CEMS Equipment Malfunction		0	0.00
3. Calibration/QA		0	0.00
4. Other Known Causes		0	0.00
5. Unknown Causes		0	0.00
2. Total CEMS Downtime		0	0.00

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:		% Excess Emissions(2)
	Duration	
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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10-29-13
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 TESFiler0002613

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO2 Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 1680 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
		%	
1. CEMS downtime in reporting period due to:		Duration	Unavailable (1)
1. Monitor Equipment Malfunctions		2	0.12
2. Non-Monitor CEMS Equipment Malfunction		0	0.00
3. Calibration/QA		0	0.00
4. Other Known Causes		0	0.00
5. Unknown Causes		0	0.00
2. Total CEMS Downtime		2	0.12

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:		% Excess Emissions(2)
		Duration
1. Startup/Shutdown		0
2. Control Equip Problems		0
3. Process Problems		0
4. Other Known Causes		0
5. Unknown Causes		0
2. Total duration of excess emissions.....		0

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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10-29-13
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TESFiler0002614

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 CO lb/mmBtu 24-Hr

Emission Limitation: 0.3

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 1680 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
		%	
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)	
1. Monitor Equipment Malfunctions	0	0.00	
2. Non-Monitor CEMS Equipment Malfunction	0	0.00	
3. Calibration/QA	0	0.00	
4. Other Known Causes	0	0.00	
5. Unknown Causes	0	0.00	
2. Total CEMS Downtime	0	0.00	

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	3	0.18
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	3	0.18

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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10-29-13
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TESFiler0002615

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 7/01/2013 To 9/30/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 1680 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

		%
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	9	0.54
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	9	0.54

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice
NAME

Jason M. Prentice
SIGNATURE

Env. Planner
TITLE

10-29-13
DATE

TESFiler0002616

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Opacity

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	08/21/13 14:30:43	08/21/13 15:29:39	10	15=Preventative Maintenance	3=Quality Assurance Calibrations	QA/QC Filter Audit

Total Downtime in the Reporting Period = 10 Periods , Data Availability for this Reporting Period = 99.94 %

Total Operating Time in the Reporting Period = 16979 Periods

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: NOx CEMS

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	08/26/13 20:00:44	08/26/13 20:59:44	1	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	NOx cooler malfunction. replaced cooler
2	09/12/13 17:00:42	09/12/13 17:59:42	1	13=Process Down	4=Other Known Causes	Boiler down, Maintenance outage

Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.88 %

Total Operating Time in the Reporting Period = 1662 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 CEMS

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	09/12/13 17:00:42	09/12/13 17:59:42	1	13=Process Down	4=Other Known Causes	Boiler down, annual maintenance outage

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.94 %

Total Operating Time in the Reporting Period = 1662 hours

TESFiler0002619

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO #/MMBTU CEMS

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	09/12/13 17:00:42	09/12/13 17:59:42	1	13=Process Down	4=Other Known Causes	Boiler down, annual maintenance outage

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.94 %

Total Operating Time in the Reporting Period = 1662 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO #/HOUR CEMS

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	09/12/13 16:00:33	09/12/13 17:59:42	2	13=Process Down	4=Other Known Causes	Boiler down, annual maintenance outage
2	09/14/13 08:00:38	09/14/13 15:59:35	8	13=Process Down	4=Other Known Causes	Boiler Down, annual maintenance outage

Total Downtime in the Reporting Period = 10 hours , Data Availability for this Reporting Period = 99.40 %

Total Operating Time in the Reporting Period = 1662 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO2 Analyzer

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	09/12/13 17:00:42	09/12/13 17:59:42	1	13=Process Down	4=Other Known Causes	Boiler down, annual maintenance outage

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.94 %

Total Operating Time in the Reporting Period = 1662 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Flow Analyzer

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	09/12/13 16:00:33	09/12/13 17:59:42	2	13=Process Down	4=Other Known Causes	Boiler Down, annual maintenance outage
2	09/14/13 08:00:38	09/14/13 15:59:35	8	13=Process Down	4=Other Known Causes	Boiler Down, annual maintenance outage

Total Downtime in the Reporting Period = 10 hours , Data Availability for this Reporting Period = 99.40 %

Total Operating Time in the Reporting Period = 1662 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Inlet SO2 CEMS

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	08/31/13 02:00:38	08/31/13 02:59:38	1	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Low flow, changed pump

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.94 %

Total Operating Time in the Reporting Period = 1662 hours

TESFiler0002624

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Inlet CO2 Analyzer

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	09/12/13 16:00:33	09/12/13 16:59:33	1	13=Process Down	4=Other Known Causes	Boiler down, annual maintenance outage

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.94 %

Total Operating Time in the Reporting Period = 1662 hours

TESFiler0002625

Downtime Report

Facility Name: T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 2**Parameter:** Opacity**Data in the Reporting Period: 07/01/13 to 09/30/13**

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/01/13 10:12:39	07/01/13 11:17:40	11	15=Preventative Maintenance	3=Quality Assurance Calibrations	Cleaned windows, re-cal
2	08/21/13 15:36:31	08/21/13 16:35:32	10	15=Preventative Maintenance	3=Quality Assurance Calibrations	QA/QC filter audit
3	09/25/13 12:24:33	09/25/13 12:35:33	2	13=Process Down	4=Other Known Causes	Boiler down, annual maintenance outage
4	09/25/13 17:24:33	09/25/13 17:53:33	5	13=Process Down	4=Other Known Causes	Boiler down, annual maintenance outage
5	09/26/13 13:42:33	09/26/13 13:53:33	2	13=Process Down	4=Other Known Causes	Boiler down, annual maintenance outage
6	09/27/13 12:00:33	09/27/13 14:05:33	21	13=Process Down	4=Other Known Causes	Boiler down, annual maintenance outage

Total Downtime in the Reporting Period = 51 Periods , Data Availability for this Reporting Period = 99.72 %**Total Operating Time in the Reporting Period = 18525 Periods**

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: NOx CEMS

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 1680 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 CEMS

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 1680 hours

TESFiler0002628

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO #/MMBTU CEMS

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 1680 hours

TESFiler0002629

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler2

Parameter: CO #/HOUR CEMS

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	09/12/13 17:00:41	09/12/13 17:59:41	1	13=Process Down	3=Quality Assurance Calibrations	Boiler down, Annual maintenance outage
2	09/14/13 08:00:37	09/14/13 15:59:39	8	13=Process Down	3=Quality Assurance Calibrations	Boiler down, Annual maintenance outage

Total Downtime in the Reporting Period = 9 hours , Data Availability for this Reporting Period = 99.46 %

Total Operating Time in the Reporting Period = 1680 hours

TESFiler0002630

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO2 Analyzer

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 1680 hours

TESFiler0002631

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Flow Analyzer

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	09/12/13 17:00:41	09/12/13 17:59:41	1	13=Process Down	4=Other Known Causes	Boiler down, Annual maintenance outage
2	09/14/13 08:00:37	09/14/13 15:59:39	8	13=Process Down	4=Other Known Causes	Boiler down, Annual maintenance outage

Total Downtime in the Reporting Period = 9 hours , Data Availability for this Reporting Period = 99.46 %

Total Operating Time in the Reporting Period = 1680 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Inlet SO2 CEMS

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/14/13 14:00:40	07/14/13 15:59:39	2	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Flow alarm, checked system, re-cal

Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.88 %

Total Operating Time in the Reporting Period = 1680 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Inlet CO2 Analyzer

Data in the Reporting Period: 07/01/13 to 09/30/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 1680 hours

TESFiler0002634

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Opacity

Limit: 10

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action
							No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 Periods

Total Operating Time in the Reporting Period = 16979 Periods

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: NOx lb/mmBtu 30-Day

Limit: 0.60

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1662 hours

TESFiler0002636

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 lb/mmBtu Daily Ave.

Limit: 0.7

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1662 hours

TESFiler0002637

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 lb/mmBtu 30-Day

Limit: 0.5

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1662 hours

TESFiler0002638

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 Reduction 30-Day

Limit: 90

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1662 hours

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boilers

Parameter: Total SO2 Tons

Limit: 6.45

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1681 hours

TESFiler0002640

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO lb/mmBtu 24-Hr Roll

Limit: 0.3

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	07/18/13 13:00:38	07/18/13 15:59:33	3	0.4	0.4	Other Known Causes	Plant Tripped off.	Checked for Problems and Started Up.

Total Duration in the Reporting Period = 3 hours , Percentage of Operating Time above Excess Emission Limit = 0.18 %

Total Operating Time in the Reporting Period = 1662 hours

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO lb/hr 24-Hr Roll

Limit: 115.2

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1662 hours

TESFiler0002642

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Opacity

Limit: 10

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration Periods	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	09/25/13 09:00:35	09/25/13 09:05:35	1	12	12	Other Known Causes	Boiler down, annual maintenance	
2	09/25/13 12:36:33	09/25/13 12:41:33	1	14	14	Other Known Causes	Boiler down, annual maintenance outage	

Total Duration in the Reporting Period = 2 Periods , Percentage of Operating Time above Excess Emission Limit = 0.01 %

Total Operating Time in the Reporting Period = 18525 Periods

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: NOx lb/mmBtu 30-Day

Limit: 0.60

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1680 hours

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 lb/mmBtu Daily Ave.

Limit: 0 - 7

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1680 hours

TESFiler0002645

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 lb/mmBtu 30-Day

Limit: 0.5

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1680 hours

TESFiler0002646

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 Reduction 30-Day

Limit: 90

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1680 hours

TESFiler0002647

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO lb/mmBtu 24-Hr Roll

Limit: 0.3

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	07/18/13 13:00:46	07/18/13 15:59:45	3	0.4	0.4	Other Known Causes	Plant Tripped off.	Checked for Problems and Started Up.

Total Duration in the Reporting Period = 3 hours , Percentage of Operating Time above Excess Emission Limit = 0.18 %

Total Operating Time in the Reporting Period = 1680 hours

TESFiler0002648

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO lb/hr 24-Hr Roll

Limit: 115.2

Data in the Reporting Period: 07/01/13 to 09/30/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1680 hours

T.E.S. Filer City Station

Filer City, Michigan

3rd Quarter Opacity Results
2013

Report Prepared on: 03 October 2013

RESULTS OF CALIBRATION ERROR TEST
FEDERAL REGISTER PART 60 APPENDIX B
PERFORMANCE SPECIFICATION 1
CONTINUOUS EMISSION MONITORING SYSTEMS
IN STATIONARY SOURCES

At

Units 1 and 2
T.E.S.
Filer City Generating Station
Filer City, Michigan.

Section 1: Introduction

Section 2: Certification Sheet

Section 3: Summary of Results

Section 4: Calibration Error Test Results

Section 5: Data Acquisition Handling System Report

INTRODUCTION

To comply with the Code of Federal Regulations Part 60, T.E.S. – Filer City Generating Station has retained the services of MSI/Mechanical Systems, Inc. to perform the Calibration Error Test on their Continuous Opacity Monitoring (COM) system on Unit 1 and 2. The Continuous Opacity Monitoring system is a Durag Model D-R 290 opacity monitor supplied and installed by MSI/Mechanical Systems, Inc.

The Calibration Error Test (CET) was completed on 21 August 2013 by an MSI technician. The CET was performed as described in the 40CFR60, Appendix B, Performance Specification 1

There are five sections to this report. Section 1 is an introduction page. Section 2 is a MSI/Mechanical Systems, Inc. certification statement. Section 3 is a summary of all test results. Section 4 has the quarterly calibration error test results. Section 5 contains the data acquisition handling system (DAHS) report. All system operating data has been supplied by the Environmental Systems Corporation (ESC) data acquisition handling system (DAHS) or collected by MSI.

CERTIFICATION SHEET

Having supervised and worked on T.E.S. – Filer City Generating Station test program described in this report, and having written this report, I hereby certify the data, information, and results of the third quarter 2013 to be accurate and true according to the methods and procedures used.

Data collected under the supervision of others, if included in this report, is presumed to have been gathered in accordance with recognized standards.

MSI/MECHANICAL SYSTEMS, INC.

Performed by:


James Fanning
Field Service Technician

03 OCT. 2013
Date

Reviewed by:


Roland Orzechowski
Field Service Manager

9 OCT 13
Date

SUMMARY OF RESULTS
FEDERAL REGISTER PART 60 APPENDIX B
PERFORMANCE SPECIFICATION 1
CONTINUOUS EMISSION MONITORING SYSTEMS
IN STATIONARY SOURCES

Location: T.E.S.
Filer City Generating Station
Filer City, Michigan

Stack: Units 1 and 2

Instrument Manufacturer: Durag

Instrument Model: Model D-R 290

Instrument Serial Number: **Unit 1** - 425673
Unit 2 - 425674

Calibration Error Test: **Unit 1** Low - Range Allowed 3.0%, Actual: 0.73%
Mid - Range Allowed 3.0%, Actual: 0.79%
High - Range Allowed 3.0%, Actual: 1.28%

Calibration Error Test: **Unit 2** Low - Range Allowed 3.0%, Actual: 0.79%
Mid - Range Allowed 3.0%, Actual: 0.62%
High - Range Allowed 3.0%, Actual: 0.56%

Neutral Density Filter Serial Numbers: Low - VN49	Exp. Date - 19 March 2014
Mid - VN50	Exp. Date - 19 March 2014
High - VN51	Exp. Date - 19 March 2014

Certification of Neutral Density Filters performed by Opacity Certification Services, NC

Calibration Error Test was completed on 21 August 2013.

CALIBRATION ERROR TEST UNIT 1 OPACITY – QUARTERLY

Person Conducting Test:		James Fanning		Analyzer Manufacturer:		Durag	
Company:		MSI/Mechanical Systems, Inc.		Model/Serial #:		D-R 290 / 425673	
Date:		21 Aug. 2013		Location:		T.E.S. - Filer City, Michigan	
Monitor Pathlength, L ₁ :		76 Inches		Emission Outlet Pathlength, L ₂ :		76 Inches	
Monitoring System Output Path Length Corrected?		Yes:		No:		X	
				Taper Ratio:		1.00	

Actual Neutral: Density Opacity %:			Path Adjusted: Density Opacity %		
Low Range:	0.08	16.50%	Low Range:	0.08	16.50%
Mid Range:	0.12	24.70%	Mid Range:	0.12	24.70%
High Range:	0.26	45.60%	High Range:	0.26	45.60%

Run Number	Calibration Filter Value (Path Adjusted Percent Opacity)	Instrument Reading (Opacity), percent	Arithmetic Difference (opacity) percent		
			Low	Mid	High
1-Low	16.60%	17.19%	-0.59%		
2-Mid	24.70%	25.44%		-0.74%	
3-High	45.70%	46.79%			-1.09%
4-Low	16.50%	17.14%	-0.64%		
5-Mid	24.70%	25.44%		-0.74%	
6-High	45.60%	46.78%			-1.18%
7-Low	16.50%	17.17%	-0.67%		
8-Mid	24.70%	25.41%		-0.71%	
9-High	45.60%	46.84%			-1.24%
10-Low	16.50%	17.20%	-0.70%		
11-Mid	24.70%	25.51%		-0.81%	
12-High	45.60%	46.84%			-1.24%
13-Low	16.50%	17.23%	-0.73%		
14-Mid	24.70%	25.44%		-0.74%	
15-High	45.60%	46.84%			-1.24%
Arithmetic Mean (Equation 1-2) X Confidence Coefficient (Equation 1-4) CC Calibration Error X + CC			X	X	X
			0.67	0.75	1.20
			0.07	0.05	0.08
			0.73%	0.79%	1.28%

CALIBRATION ERROR TEST UNIT 2 OPACITY – QUARTERLY

Company: MSI/Mechanical Systems, Inc.		Model/Serial #: D-R 290 / 425674	
Date: 21 Aug. 2013		Location: T.E.S.- Filer City, Michigan	
Monitor Pathlength, L ₁ : 76 Inches		Emission Outlet Pathlength, L ₂ : 76 Inches	
Monitoring System Output Path Length Corrected?		Yes:	No: X
		Taper Ratio: 1.00	

Actual Neutral: Density Opacity %:			Path Adjusted: Density Opacity %		
Low Range:	0.08	16.50%	Low Range:	0.08	16.50%
Mid Range:	0.12	24.70%	Mid Range:	0.12	24.70%
High Range:	0.26	45.60%	High Range:	0.26	45.60%

Run Number	Calibration Filter Value (Path Adjusted Percent Opacity)	Instrument Reading (Opacity), percent	Arithmetic Difference (opacity) percent		
			Low	Mid	High
1-Low	16.60%	17.21%	-0.61%		
2-Mid	24.70%	25.29%		-0.59%	
3-High	45.70%	46.11%			-0.41%
4-Low	16.50%	17.25%	-0.75%		
5-Mid	24.70%	25.29%		-0.59%	
6-High	45.60%	46.11%			-0.51%
7-Low	16.50%	17.24%	-0.74%		
8-Mid	24.70%	25.31%		-0.61%	
9-High	45.60%	46.14%			-0.54%
10-Low	16.50%	17.25%	-0.75%		
11-Mid	24.70%	25.33%		-0.63%	
12-High	45.60%	46.11%			-0.51%
13-Low	16.50%	17.24%	-0.74%		
14-Mid	24.70%	25.28%		-0.58%	
15-High	45.60%	46.11%			-0.51%

Arithmetic Mean (Equation 1-2) X Confidence Coefficient (Equation 1-4) CC Calibration Error X + CC			 0.72 0.08 0.79%	 0.60 0.02 0.62%	 0.50 0.06 0.56%
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Opacity Data Summary Report

Facility Name: T.E.S. Filer City Station
Source: Boiler 1 Opacity

Location: Filer City, MI

Date/Time	10-Second Opacity Readings (%)						Calculated Average (%)	DAS 1-Min Average		Absolute Value of Difference
	# 1	# 2	# 3	# 4	# 5	# 6		(%)	MC	
08/21/13 14:53:39	49.47	46.87	46.84	24.51	23.91	2.17	32.30	Miss.	18	Miss.
08/21/13 14:54:39	17.19	17.19	17.16	17.19	17.19	17.16	17.18	Miss.	18	Miss.
08/21/13 14:55:39	17.16	13.22	25.41	25.44	25.43	25.47	22.02	Miss.	18	Miss.
08/21/13 14:56:40	25.44	27.08	46.84	46.79	46.81	46.81	39.96	Miss.	18	Miss.
08/21/13 14:57:47	46.81	28.85	17.16	17.14	17.13	17.19	24.05	Miss.	18	Miss.
08/21/13 14:58:40	17.19	12.91	25.44	25.44	25.44	25.41	21.97	Miss.	18	Miss.
08/21/13 14:59:40	25.41	23.10	46.78	46.78	46.81	46.84	39.29	Miss.	18	Miss.
08/21/13 15:00:40	46.84	18.96	17.17	17.17	17.17	17.17	22.41	Miss.	18	Miss.
08/21/13 15:01:40	17.17	13.85	25.41	25.41	25.43	25.48	22.13	Miss.	18	Miss.
08/21/13 15:02:33	25.48	22.52	46.84	46.84	46.81	46.81	39.22	Miss.	18	Miss.
08/21/13 15:03:33	46.83	29.11	17.19	17.20	17.20	17.23	24.13	Miss.	18	Miss.
08/21/13 15:04:35	17.23	13.35	25.48	25.51	25.48	25.48	22.09	Miss.	18	Miss.
08/21/13 15:05:34	25.48	17.60	46.84	46.84	46.81	46.87	38.41	Miss.	18	Miss.
08/21/13 15:06:34	46.84	25.88	17.23	17.23	17.19	17.19	23.59	Miss.	18	Miss.
08/21/13 15:07:35	17.19	10.86	25.44	25.44	25.47	25.53	21.66	Miss.	18	Miss.
08/21/13 15:08:34	25.47	26.66	46.87	46.84	46.87	46.84	39.93	Miss.	18	Miss.
08/21/13 15:09:34	46.83	46.81	0.16	0.16	0.23	0.23	15.74	Miss.	18	Miss.
08/21/13 15:10:35	0.23	0.23	0.23	0.22	0.19	0.23	0.22	Miss.	18	Miss.
08/21/13 15:11:35	0.23	0.23	0.22	0.51	2.54	2.57	1.05	Miss.	18	Miss.
08/21/13 15:12:35	2.44	2.47	2.54	2.44	2.41	2.44	2.46	Miss.	18	Miss.

MC - Monitoring Codes:

00 - System OK; Data is Valid	14 - Recalibration	19 - Sample Interface Malfunction
10 - Heavy Rains	15 - Preventive Maintenance	20 - Corrective Maintenance
11 - Excess Drift Primary Analyzer	16 - Primary Analyzer Malfunction	21 - Analyzer in Audit mode
12 - Excess Drift Ancillary Analyzer	17 - Ancillary Analyzer Malfunction	98 - Automatic Calibration
13 - Process Down	18 - Data Handling System Malfunction	99 - Software Adjust

TESFiler0002657

Opacity Data Summary Report

Facility Name: T.E.S. Filer City Station
Source: Boiler 2 Opacity

Location: Filer City, MI

Date/Time	10-Second Opacity Readings (%)						Calculated Average (%)	DAS 1-Min Average		Absolute Value of Difference
	# 1	# 2	# 3	# 4	# 5	# 6		(%)	MC	
08/21/13 16:09:31	80.92	35.85	3.28	17.22	17.19	17.22	28.61	Miss.	18	Miss.
08/21/13 16:10:39	17.22	17.22	17.22	17.22	17.22	17.22	17.22	Miss.	18	Miss.
08/21/13 16:11:32	17.22	17.22	17.22	17.22	17.20	17.21	17.22	Miss.	18	Miss.
08/21/13 16:12:39	17.21	17.22	17.21	17.22	17.22	10.90	16.16	Miss.	18	Miss.
08/21/13 16:13:31	25.25	25.28	25.29	25.28	25.28	37.97	27.39	Miss.	18	Miss.
08/21/13 16:14:31	46.08	46.05	46.11	46.07	46.11	7.53	39.66	Miss.	18	Miss.
08/21/13 16:15:31	17.25	17.25	17.25	17.24	17.25	23.56	18.30	Miss.	18	Miss.
08/21/13 16:16:39	25.29	25.28	25.29	25.28	25.29	17.41	23.97	Miss.	18	Miss.
08/21/13 16:17:40	46.13	46.11	46.11	46.11	46.11	15.74	41.05	Miss.	18	Miss.
08/21/13 16:18:42	17.25	17.25	17.24	17.24	16.38	9.63	15.83	Miss.	18	Miss.
08/21/13 16:19:41	25.30	25.32	25.31	25.31	25.31	45.94	28.75	Miss.	18	Miss.
08/21/13 16:20:41	46.11	46.10	46.14	46.11	46.11	5.56	39.36	Miss.	18	Miss.
08/21/13 16:21:41	17.25	17.25	17.25	17.25	15.10	23.56	17.94	Miss.	18	Miss.
08/21/13 16:22:41	25.31	25.32	25.33	25.31	24.83	14.56	23.44	Miss.	18	Miss.
08/21/13 16:23:41	46.09	46.11	46.11	46.08	43.94	13.06	40.23	Miss.	18	Miss.
08/21/13 16:24:41	17.24	17.28	17.24	17.25	17.24	8.06	15.72	Miss.	18	Miss.
08/21/13 16:25:41	25.28	25.29	25.28	25.28	23.72	46.11	28.49	Miss.	18	Miss.
08/21/13 16:26:40	46.11	46.11	46.11	46.11	43.41	0.21	38.01	Miss.	18	Miss.

MC - Monitoring Codes:

00 - System OK; Data is Valid	14 - Recalibration	19 - Sample Interface Malfunction
10 - Heavy Rains	15 - Preventive Maintenance	20 - Corrective Maintenance
11 - Excess Drift Primary Analyzer	16 - Primary Analyzer Malfunction	21 - Analyzer in Audit mode
12 - Excess Drift Ancillary Analyzer	17 - Ancillary Analyzer Malfunction	98 - Automatic Calibration
13 - Process Down	18 - Data Handling System Malfunction	99 - Software Adjust

January 30, 2014

Ms. Janis Denman, Supervisor
Michigan Department of Environmental Quality
Air Quality Division
120 W. Chapin Street
Cadillac, MI 49601-2158

SUBJECT: FOURTH QUARTER 2013 EMISSIONS MONITORING REPORT

Dear Ms. Denman:

Enclosed is the Fourth Quarter 2013 emissions monitoring report for Boilers No. 1 and No. 2 at the T.E.S. Filer City Station (Renewable Operating Permit No. ROP MI-ROP-N1685-2008b). The report includes all information required under Federal Standards of Performance for New Stationary Sources (40 CFR 60, Subparts A, Da, and Appendix F).

This quarterly report contains the Excess Emissions Reports (EERs) and Summary Reports for Boilers No. 1 and No. 2. The report also includes the results of linearity tests conducted in accordance with 40 CFR Part 75, Appendices A and B (all outlet CEMS other than CO), and cylinder gas audits (CGAs) conducted in accordance with 40 CFR Part 60, Appendix F (inlet CEMS and outlet CO CEMS). The associated Certificates of Analysis for the calibration gases used in the linearity tests and CGAs are also included within this quarterly report.

In accordance with Section 4.7.2 of the C/D Waste Wood Monitoring Plan dated September 20, 2012, a quarterly report detailing the quantities and sampling results for C/D wood waste will only be submitted if such materials are received within the calendar quarter. No such materials were received during the 4th quarter 2013, so this quarterly report does not contain any information on C/D waste wood shipments.

Please contact me at (517) 788-1467 or Mr. Richard Brown of TES Filer City Station at (231) 723-6573, Extension 103, if you have any questions or require further information concerning the contents of this quarterly report.

Sincerely,



Jason Prentice
Environmental Planner
Consumers Energy Company

cc: Karen Kajiya-Mills, MDEQ-AQD
Richard Brown, TES Filer City Station (Electronic Only)
Shane Nixon, MDEQ-AQD (Electronic Only)
Filer City Compliance File-Q, SA, A File



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

**RENEWABLE OPERATING PERMIT
REPORT CERTIFICATION**

Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Environmental Quality, Air Quality Division upon request.

Source Name T.E.S. Filer City Station County Manistee

Source Address P.O. Box 12 / 700 Mee Street City Filer City

AQD Source ID (SRN) N1685 ROP No. MI-ROP-N1685-2008b ROP Section No. N/A

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From _____ To _____

- ☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.
- ☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From _____ To _____

- ☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.
- ☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 10/01/2013 To 12/31/2013

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

Boilers 1 and 2 Quarterly Report for the 4th Quarter of 2013 (October – December).

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

Henry M. Hoffman

General Manager

231-723-6573

Name of Responsible Official (print or type)

Title

Phone Number

Signature of Responsible Official

Date

T.E.S. FILER CITY STATION

CONTINUOUS EMISSION MONITORING QUARTERLY REPORT

**SUBPART Da
(NSPS SOURCES)**

Year 2013

Report Period Ending: March 31 June 30 Sept. 30 Dec. 31 X

I. GENERAL INFORMATION

1. Source: T.E.S. FILER CITY STATION

2. Address: 700 MEE STREET
FILER CITY, MICHIGAN 49634

3. Plant Phone Number: (231) 723-6573

4. Affected Facility: BOILER #1 X BOILER #2 X

5. Control Device(s): GEESI/DRY FLUE GAS DESULFERIZATION SYSTEM
 GEESI/FABRIC FILTER BAGHOUSES

6. Fuel Type: Coal/Wood/TDF/Petroleum Coke/Construction & Demolition (C/D) Waste
(NOTE: Although allowed by permit, C/D wastes were not fired during the quarter)

7. Person Completing Report

(Print) Jason M. Prentice

(Signature) *Jason M. Prentice*

(Date) 1-30-14

This is to certify that, to the best of my knowledge, the information provided on these forms is correct and accurate.

8. Person Responsible For Review and Integrity of Report:

(Print) Henry M. Hoffman

(Signature) *Henry M. Hoffman*

(Date) 1-28-2014

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO ₂	INLET #2 SO ₂	STACK #1 SO ₂	STACK #2 SO ₂	STACK #1 NO _x	STACK #2 NO _x	STACK #1 CO	STACK #2 CO	INLET # 1 CO ₂	INLET # 2 CO ₂	STACK # 1 CO ₂	STACK # 2 CO ₂
1. MFG:	Durag, Inc.	Durag, Inc.	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹	T. E. I. ¹
2. MODEL NO:	D-R 290	D-R 290	43i	43i	43i	43i	42i	42i	48i	48i	410i	410i	410i	410i
3. SERIAL NO:	425692	425693	0622717879	0622717883	0622717877	0622717880	0623017966	0623017967	0622717887	0622717888	0622717873	0622717875	0622717869	0622717874
4. Basis for Gas Measurement (wet or dry)	N / A	N / A	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET
5. F-Factor Used	N / A	N / A	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	F _c ≈ 1,800 scf/mm Btu	N / A	N / A	N / A	N / A

¹ T. E. I. standards for Thermo Environmental Instruments, Inc.

6. F-Factor Method: Fuel Analyses and Method 19, Equation 19-15 and/or Method 19, Table 19-2. Please note that the fuel factors are unit specific and are based upon the relative amounts (on a heat input basis) of coal, wood, petroleum coke and tire-derived-fuel (TDF) that are fired within a given time period.

7. Ave. Time	6 Minute	6 Minute	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour
--------------	----------	----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

8. Zero/Span
Values

ZERO	0 %	0 %	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 %	0 %	0 %	0 %
SPAN	45 %	45 %	2,000 PPM	2,000 PPM	H: 1,500 PPM ¹ L: 200 PPM ¹	H: 1,500 PPM ¹ L: 200 PPM ¹	500 PPM	500 PPM	H: 3,000 PPM ² L: 300 PPM ²	H: 3,000 PPM ² L: 300 PPM ²	20.0 %	20.0 %	20.0 %	20.0 %

¹ The span values for the SO₂ Stack CEMS were revised from 2,000 ppm for the high span and 500 ppm for the low span just prior to the September 2008 Part 75 certification tests. The revised high and low span values were determined in accordance with sections 2.1.1.3 and 2.1.1.4 of Appendix A to 40 CFR Part 75.

² The historic span value for each of the CO Stack CEMS was 500 ppm (with a full scale of 2,050 ppm). In May of 2012, the plant implemented dual ranges for each CO CEMS, with a low range span value of 300 ppm and a high range span value of 3,000 ppm.

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

9. Date of Last Performance Specification Test Passed	Monitoring System	RATA	7-Day Calibration Drift Test	Cycle-time Test	COMS Field Audit Test	COMS 168-hr Operational Test
	Boiler 1 Gas CEMS	08/20/2013	10/31/2006 (Stk SO ₂ = 09/25/08)	10/18/2006 (Stk SO ₂ = 10/03/08)	N/A	N/A
	Boiler 1 COMS	N/A	N/A	N/A	08/21/2013	10/26/2006
	Boiler 2 Gas CEMS	08/21/2013	10/31/2006 (Stk SO ₂ = 09/25/08)	10/23/2006 (Stk SO ₂ = 10/03/08)	N/A	N/A
	Boiler 2 COMS	N/A	N/A	N/A	08/21/2013	11/01/2006

10. Modification Since Last PST Date (10-06; 9-08)	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 2 CO2	INLET # 2 CO2	STACK #1 CO2	STACK # 2 CO2
	NONE	NONE	NONE	NONE	NONE (Changed high & low span vals in 2008)	NONE (Changed high & low span vals in 2008)	NONE	NONE	NONE (Went to dual range as of 5-2012)	NONE (Went to dual range as of 5-2012)	NONE	NONE	NONE	NONE

11. Emission Limits (Averaging Period)	10 % (6-Min)	10 % (6-Min)	N / A	N / A	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.3 lb/mm Btu (24-Hour)	0.3 lb/mm Btu (24-Hour)	N / A	N / A	N / A	N / A

T.E.S. FILER CITY STATION

III. MONITORING AND COMPLIANCE SUMMARY (per 40 CFR 60.51a(h))

	YES	NO	REF.
1. Were the required continuous monitoring systems calibrated, span, and drift checks or other periodic audits performed as specified?	<u>X</u>	<u> </u>	<u> </u>
2. Were the data used to show compliance obtained in accordance with approved methods and procedures of Subpart Da?	<u>X</u>	<u> </u>	<u> </u>
3. Are the data representative of plant performance?	<u>X</u>	<u> </u>	<u> </u>
4. Were the minimum data requirements met? If no, were they not met due to unavoidable errors?	<u>X</u>	<u> </u>	<u> </u>
5. Was compliance with the standards achieved during the reporting period?	<u> </u>	<u>X</u>	<u> </u>

Boiler #1

SO ₂ Stack Limit 0.7 lb/MMBTU 24 Hour	<u> </u>	<u>X</u>	<u> </u>
SO ₂ Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
SO ₂ 90% Reduction 30 Day	<u>X</u>	<u> </u>	<u> </u>
NO _x Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
Opacity Limit >10% 6 Minute Average	<u> </u>	<u>X</u>	<u> </u>

Boiler #2

SO ₂ Stack Limit 0.7 lb/MMBTU 24 Hour	<u> </u>	<u>X</u>	<u> </u>
SO ₂ Stack Limit 0.5 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
SO ₂ 90% Reduction 30 Day	<u>X</u>	<u> </u>	<u> </u>
NO _x Stack Limit 0.6 lb/MMBTU 30 Day	<u>X</u>	<u> </u>	<u> </u>
Opacity Limit >10% 6 Minute Average	<u> </u>	<u>X</u>	<u> </u>

T.E.S. FILER CITY STATION**V. EXCESS EMISSION REPORT - SO₂ AND NO_x****SO₂ EVENTS (30 Day Rolling Average Limit of 0.5 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

SO₂ EVENTS (24 Hour Average Limit of 0.7 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
10/18/2013 (8 Op Hrs)	1	1.2	Boiler startup (SU) following a routine maintenance outage; SO ₂ dry scrubber had to be bypassed to pre-warm the baghouse & maintain the required minimum inlet temperature.	Followed the Maintenance Management Plan (MMP); boiler & baghouse were brought up to full operating temp. as quickly as possible; scrubber was placed into service per manufacturer recommendations.
10/19/2013 (19 Op Hrs)	1	1.3	Continuation of boiler startup (SU) following a routine maintenance outage; SO ₂ dry scrubber had to be bypassed to pre-warm the baghouse & maintain the required minimum inlet temperature.	Followed the Maintenance Management Plan (MMP); boiler & baghouse were brought up to full operating temp. as quickly as possible; scrubber was placed into service per manufacturer recommendations.
10/19/2013 (8 Op Hrs)	2	1.1	Boiler startup (SU) following a routine maintenance outage; SO ₂ dry scrubber had to be bypassed to pre-warm the baghouse & maintain the required minimum inlet temperature.	Followed the Maintenance Management Plan (MMP); boiler & baghouse were brought up to full operating temp. as quickly as possible; scrubber was placed into service per manufacturer recommendations.

SO₂ EVENTS (30 Day Rolling Average Limit of SO₂ Percent Reduction: Limit=90%)

Date(s) Occurred	Boiler No.	Value (% removal)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

T.E.S. FILER CITY STATION**NO_x EVENTS (30 Day Rolling Average Limit of 0.60 lb/MMBTU)**

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

OPACITY EVENTS (Excess Emission Notification >10%, 6-Min. Average, for ≥ 2 Hours)

Date(s) Occurred	Boiler No.	Value (% opacity)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NOTE: All six minute periods during which the average opacity exceeds 10% are identified in the attached monthly “Excess Emissions Report” for Boiler #1 and Boiler #2.

T.E.S. FILER CITY STATION**VI. QUALITY ASSURANCE DATA****1a. OUT-OF-CONTROL ASSESSMENT INFORMATION****BOILER # 1****INLET CO₂ METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717873	None	N / A	N / A

STACK CO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717869	None	N / A	N / A

INLET SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	10/18/2013; 17:00 (1 Hr)	Inlet SO ₂ analyzer failed the daily calibration error test upon unit startup.	Ran another calibration error test as quickly as practical following the failed test; follow-up calibration error test passed.

STACK SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

T.E.S. FILER CITY STATION

STACK NO_x METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017966	None	N / A	N / A

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425692	None	N / A	N / A

2a. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #1

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

3a. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 1 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Cylinder Gas Audits (CGAs), Linearity Tests or Relative Accuracy Test Audits (RATAs). However, there was a short OOC period associated with excessive CD error for the Unit 1 inlet SO₂ CEMS.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled “Downtime Report”. The information provided in Section VI.1a of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

T.E.S. FILER CITY STATION**1b. OUT-OF-CONTROL ASSESSMENT INFORMATION****BOILER # 2****INLET CO₂ METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717875	None	N / A	N / A

STACK CO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717874	None	N / A	N / A

INLET SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717883	None	N / A	N / A

STACK SO₂ METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717880	None	N / A	N / A

T.E.S. FILER CITY STATION**STACK NO_x METER**

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017967	10/29/2013; 06:00 – 07:00 (2 Hrs)	Stack NO _x analyzer was reading erratically; failed the daily calibration error test.	As a result of erratic behavior starting 10/26/13 and the failed calibration error test, performed troubleshooting activities. A thermistor was identified as the source of the issue; first recalibrated the thermistor and eventually replaced the thermistor, followed by a passing calibration error test.
TEI 42i – 0623017967	11/22/2013; 14:00 – 16:00 (3 Hrs)	Stack NO _x analyzer failed the daily calibration error test.	Checked operation of the NO _x analyzer; no issues were identified. Conducted and passed a calibration error test.

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425693	None	N / A	N / A

2b. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #2

Date(s) Occurred	Description	Corrective Action
10/26/2013; 10/27/2013; 10/28/2013	A malfunction of the NO _x analyzer led to the loss of 38 contiguous hours of NO _x data, between 10/26/2013, Hr 18:00 and 10/28/2013, Hr 07:00. As a result, less than 18 hours of valid NO _x emission data was collected on each of these three calendar days.	As a result of erratic behavior starting 10/26/13 and the failed calibration error test on 10/29/13, performed troubleshooting activities on the NO _x analyzer. A thermistor was identified as the source of the issue; first recalibrated the thermistor and eventually replaced the thermistor, followed by a passing calibration error test.

T.E.S. FILER CITY STATION

3b. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 2 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1b of this report. During this quarter, there were no OOC periods associated with Cylinder Gas Audits (CGAs), Linearity Tests or Relative Accuracy Test Audits (RATAs). However, there were two short OOC periods associated with excessive CD error for the Unit 2 stack NO_x CEMS.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled "Downtime Report". The information provided in Section VI.1b of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

4. Full Scale Exceedance: Identification of times when pollutant concentration exceeds full span of the continuous monitoring system.

Date(s) Occurred	Boiler No.	Description	Corrective Action
None	1	N / A	N / A
None	2	N / A	N / A

TES FILER CITY STATION AIR EMISSION SUMMARY

OCTOBER 2013

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	17538 /	17538	100.00%	265.0 /	292.0	90.75%	292.0 /	292.0	100.00%	292.0 /	292.0	100.00%	292.0 /	292.0	100.00%
YTD			99.99%			99.37%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	31812 /	31842	99.91%	247.0 /	255.0	96.86%	255.0 /	255.0	100.00%	255.0 /	255.0	100.00%	255.0 /	255.0	100.00%
YTD			99.97%			99.50%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION AIR EMISSION SUMMARY

NOVEMBER 2013

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	43188 /	43200	99.97%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
YTD			99.99%			99.44%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	43176 /	43200	99.94%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
YTD			99.97%			99.55%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION AIR EMISSION SUMMARY

DECEMBER 2013

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	44568 /	44640	99.84%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.98%			99.49%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	44628 /	44640	99.97%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.97%			99.60%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION AIR EMISSION SUMMARY

4th QUARTER 2013

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
OCT	17538 /	17538	100.00%	265.0 /	292.0	90.75%	292.0 /	292.0	100.00%	292.0 /	292.0	100.00%	292.0 /	292.0	100.00%
NOV	43188 /	43200	99.97%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
DEC	44568 /	44640	99.84%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
4 th Quarter	105294 /	105378	99.92%	1,729.0 /	1,756.0	98.46%	1,756.0 /	1,756.0	100.00%	1,756.0 /	1,756.0	100.00%	1,756.0 /	1,756.0	100.00%
YTD			99.98%			99.49%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
OCT	31812 /	31842	99.91%	247.0 /	255.0	96.86%	255.0 /	255.0	100.00%	255.0 /	255.0	100.00%	255.0 /	255.0	100.00%
NOV	43176 /	43200	99.94%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
DEC	44628 /	44640	99.97%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
4 th Quarter	119616 /	119682	99.94%	1,711.0 /	1,719.0	99.53%	1,719.0 /	1,719.0	100.00%	1,719.0 /	1,719.0	100.00%	1,719.0 /	1,719.0	100.00%
YTD			99.97%			99.60%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH

24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING

ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

CEMS Daily Averages - 10/01/13 To 12/31/13

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Period: 10/01/13 00:00:00 To 12/31/13 23:59:59; Records = 92

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
10/01/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/02/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/03/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/04/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/05/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/06/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/07/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/08/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/09/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/10/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/11/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/12/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/13/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/14/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/15/13	1		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/16/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/17/13	0		0.451	30	0.000	00	0.157	30	92.97	30	0.00	00
10/18/13	8		0.451	30	1.172	07	0.157	30	92.97	30	0.00	07
10/19/13	19		0.451	30	1.346	18	0.157	30	92.97	30	0.00	17
10/20/13	22		0.451	30	0.249	22	0.157	30	92.97	30	1.99	22
10/21/13	12		0.451	30	0.344	11	0.157	30	92.97	30	0.00	10
10/22/13	24		0.452	30	0.120	24	0.153	30	93.15	30	1.24	24
10/23/13	18		0.452	30	0.137	18	0.153	30	93.15	30	0.43	20
10/24/13	20		0.452	30	0.378	20	0.153	30	93.15	30	1.31	24
10/25/13	24		0.451	30	0.148	24	0.152	30	93.20	30	1.63	24
10/26/13	24		0.449	30	0.189	24	0.153	30	93.15	30	1.90	24
10/27/13	24		0.449	30	0.114	24	0.153	30	93.18	30	1.35	24
10/28/13	24		0.448	30	0.173	24	0.153	30	93.14	30	1.89	24
10/29/13	24		0.446	30	0.171	24	0.154	30	93.13	30	2.20	24
10/30/13	24		0.445	30	0.168	24	0.154	30	93.19	30	1.98	24
10/31/13	24		0.443	30	0.124	24	0.152	30	93.31	30	1.56	24
11/01/13	24		0.440	30	0.150	24	0.151	30	93.38	30	1.70	24
11/02/13	24		0.438	30	0.140	24	0.151	30	93.44	30	1.69	24
11/03/13	24		0.436	30	0.198	24	0.152	30	93.41	30	2.10	24
11/04/13	24		0.434	30	0.178	24	0.153	30	93.42	30	1.73	24
11/05/13	24		0.432	30	0.124	22	0.153	30	93.48	30	1.45	22
11/06/13	24		0.429	30	0.240	23	0.155	30	93.40	30	2.47	23

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
11/07/13	24		0.428	30	0.142	24	0.154	30	93.48	30	1.42	24
11/08/13	24		0.426	30	0.126	24	0.153	30	93.53	30	1.49	24
11/09/13	24		0.423	30	0.172	24	0.153	30	93.56	30	1.97	24
11/10/13	24		0.422	30	0.161	24	0.153	30	93.57	30	1.80	24
11/11/13	24		0.421	30	0.145	24	0.152	30	93.63	30	1.71	24
11/12/13	24		0.420	30	0.155	24	0.152	30	93.65	30	1.66	24
11/13/13	24		0.419	30	0.143	24	0.151	30	93.68	30	1.46	24
11/14/13	24		0.418	30	0.148	24	0.152	30	93.65	30	1.61	24
11/15/13	24		0.416	30	0.124	24	0.150	30	93.76	30	1.37	24
11/16/13	24		0.414	30	0.192	24	0.150	30	93.76	30	2.06	24
11/17/13	24		0.412	30	0.116	24	0.147	30	93.93	30	1.50	24
11/18/13	24		0.409	30	0.153	24	0.145	30	94.02	30	1.87	24
11/19/13	24		0.406	30	0.133	24	0.144	30	94.11	30	1.67	24
11/20/13	24		0.404	30	0.120	24	0.146	30	94.04	30	1.14	24
11/21/13	24		0.402	30	0.116	24	0.148	30	93.95	30	1.26	24
11/22/13	24		0.400	30	0.178	24	0.152	30	93.79	30	1.91	24
11/23/13	24		0.399	30	0.176	24	0.154	30	93.70	30	1.88	24
11/24/13	24		0.399	30	0.160	24	0.154	30	93.67	30	1.62	24
11/25/13	24		0.399	30	0.156	24	0.153	30	93.69	30	1.59	24
11/26/13	24		0.399	30	0.202	24	0.156	30	93.56	30	2.05	24
11/27/13	24		0.400	30	0.185	24	0.156	30	93.54	30	1.67	24
11/28/13	24		0.400	30	0.146	24	0.156	30	93.56	30	1.52	24
11/29/13	24		0.399	30	0.183	24	0.156	30	93.51	30	1.87	24
11/30/13	24		0.400	30	0.167	24	0.158	30	93.43	30	1.62	24
12/01/13	24		0.402	30	0.170	24	0.158	30	93.38	30	1.70	24
12/02/13	24		0.402	30	0.175	24	0.159	30	93.32	30	1.59	24
12/03/13	24		0.403	30	0.169	24	0.158	30	93.34	30	1.96	24
12/04/13	24		0.403	30	0.152	24	0.158	30	93.36	30	1.59	24
12/05/13	24		0.405	30	0.160	24	0.159	30	93.32	30	1.75	24
12/06/13	24		0.406	30	0.158	24	0.156	30	93.43	30	1.82	24
12/07/13	24		0.407	30	0.145	24	0.156	30	93.42	30	1.69	24
12/08/13	24		0.408	30	0.164	24	0.157	30	93.37	30	1.80	24
12/09/13	24		0.409	30	0.206	24	0.159	30	93.33	30	1.92	24
12/10/13	24		0.410	30	0.175	24	0.159	30	93.31	30	1.57	24
12/11/13	24		0.411	30	0.177	24	0.160	30	93.28	30	1.60	24
12/12/13	24		0.412	30	0.121	24	0.159	30	93.34	30	0.99	24
12/13/13	24		0.413	30	0.127	24	0.158	30	93.37	30	1.17	24
12/14/13	24		0.413	30	0.171	24	0.159	30	93.36	30	1.65	24
12/15/13	24		0.413	30	0.148	24	0.160	30	93.33	30	1.51	24
12/16/13	24		0.414	30	0.158	24	0.159	30	93.37	30	1.51	24
12/17/13	24		0.415	30	0.149	24	0.160	30	93.33	30	1.47	24

Date	Operating Hours		NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS		30-Day		24-Hr		30-Day		30-Day		SO2	
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
12/18/13	24		0.416	30	0.126	24	0.159	30	93.38	30	1.41	24
12/19/13	24		0.416	30	0.122	24	0.159	30	93.39	30	1.33	24
12/20/13	24		0.417	30	0.208	24	0.162	30	93.27	30	2.03	24
12/21/13	24		0.417	30	0.168	24	0.163	30	93.19	30	1.54	24
12/22/13	24		0.418	30	0.162	24	0.163	30	93.22	30	1.70	24
12/23/13	24		0.418	30	0.159	24	0.162	30	93.25	30	2.02	24
12/24/13	24		0.418	30	0.141	24	0.162	30	93.28	30	1.41	24
12/25/13	24		0.419	30	0.159	24	0.162	30	93.29	30	1.62	24
12/26/13	24		0.420	30	0.160	24	0.160	30	93.36	30	1.66	24
12/27/13	24		0.420	30	0.123	24	0.158	30	93.43	30	1.20	24
12/28/13	24		0.420	30	0.151	24	0.158	30	93.40	30	1.62	24
12/29/13	24		0.420	30	0.077	24	0.155	30	93.54	30	0.83	24
12/30/13	24		0.422	30	0.144	24	0.154	30	93.57	30	1.56	24
12/31/13	24		0.423	30	0.157	24	0.154	30	93.59	30	1.57	24

CEMS Daily Averages - 10/01/13 To 12/31/13

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Period: 10/01/13 00:00:00 To 12/31/13 23:59:59; Records = 92

Date	Operating Hours	NOx		SO2		SO2		SO2		
	CEMS	30-Day	Vld	24-Hr	Vld	30-Day	Vld	% Red.	Vld	
10/01/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/02/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/03/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/04/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/05/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/06/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/07/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/08/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/09/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/10/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/11/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/12/13	1	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/13/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/14/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/15/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/16/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/17/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/18/13	0	0.418	30	0.000	00	0.158	30	92.91	30	0.00
10/19/13	8	0.418	30	1.099	07	0.158	30	92.91	30	0.00
10/20/13	22	0.418	30	0.257	22	0.158	30	92.91	30	0.00
10/21/13	8	0.418	30	0.028	06	0.158	30	92.91	30	0.00
10/22/13	22	0.418	30	0.165	22	0.158	30	92.91	30	0.00
10/23/13	2	0.418	30	0.638	02	0.158	30	92.91	30	0.00
10/24/13	24	0.420	30	0.358	24	0.157	30	92.72	30	0.00
10/25/13	24	0.420	30	0.183	24	0.157	30	92.71	30	0.00
10/26/13	24	0.421	29	0.199	24	0.159	30	92.65	30	0.00
10/27/13	24	0.421	28	0.157	24	0.161	30	92.61	30	0.00
10/28/13	24	0.423	27	0.201	24	0.162	30	92.57	30	0.00
10/29/13	24	0.423	27	0.262	24	0.165	30	92.50	30	0.00
10/30/13	24	0.422	27	0.225	24	0.166	30	92.47	30	0.00
10/31/13	24	0.420	27	0.193	24	0.167	30	92.50	30	0.00
11/01/13	24	0.419	27	0.195	24	0.168	30	92.51	30	0.00
11/02/13	24	0.419	27	0.205	24	0.170	30	92.50	30	0.00
11/03/13	24	0.420	27	0.228	24	0.172	30	92.44	30	0.00
11/04/13	24	0.420	27	0.171	24	0.173	30	92.47	30	0.00
11/05/13	24	0.417	27	0.201	22	0.173	30	92.49	30	0.00
11/06/13	24	0.415	27	0.293	24	0.177	30	92.39	30	0.00

Date	Operating Hours		NOx		SO2		SO2		SO2		Vld
	CEMS		30-Day		24-Hr		30-Day		30-Day		
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	
11/07/13	24		0.413	27	0.143	24	0.176	30	92.46	30	0.00
11/08/13	24		0.412	27	0.173	24	0.176	30	92.49	30	0.00
11/09/13	24		0.409	27	0.229	24	0.179	30	92.39	30	0.00
11/10/13	24		0.408	27	0.200	24	0.180	30	92.34	30	0.00
11/11/13	24		0.408	27	0.199	24	0.182	30	92.25	30	0.00
11/12/13	24		0.407	27	0.172	24	0.182	30	92.29	30	0.00
11/13/13	24		0.406	27	0.150	24	0.182	30	92.31	30	0.00
11/14/13	24		0.404	27	0.177	24	0.182	30	92.29	30	0.00
11/15/13	24		0.402	27	0.153	24	0.181	30	92.37	30	0.00
11/16/13	24		0.399	27	0.225	24	0.181	30	92.37	30	0.00
11/17/13	24		0.395	27	0.190	24	0.180	30	92.40	30	0.00
11/18/13	24		0.394	27	0.219	24	0.182	30	92.34	30	0.00
11/19/13	24		0.395	27	0.195	24	0.186	30	92.18	30	0.00
11/20/13	24		0.395	27	0.105	24	0.187	30	92.15	30	0.00
11/21/13	24		0.396	27	0.133	24	0.188	30	92.08	30	0.00
11/22/13	24		0.397	27	0.198	24	0.192	30	91.92	30	0.00
11/23/13	24		0.398	27	0.191	24	0.192	30	92.13	30	0.00
11/24/13	24		0.400	27	0.158	24	0.191	30	92.14	30	0.00
11/25/13	24		0.402	28	0.162	24	0.190	30	92.18	30	0.00
11/26/13	24		0.405	29	0.208	24	0.192	30	92.09	30	0.00
11/27/13	24		0.406	30	0.151	24	0.190	30	92.15	30	0.00
11/28/13	24		0.408	30	0.157	24	0.187	30	92.26	30	0.00
11/29/13	24		0.412	30	0.189	24	0.185	30	92.28	30	0.00
11/30/13	24		0.416	30	0.158	24	0.184	30	92.29	30	0.00
12/01/13	24		0.418	30	0.171	24	0.183	30	92.29	30	0.00
12/02/13	24		0.420	30	0.144	24	0.181	30	92.35	30	0.00
12/03/13	24		0.422	30	0.228	24	0.181	30	92.33	30	0.00
12/04/13	24		0.424	30	0.170	24	0.181	30	92.32	30	0.00
12/05/13	24		0.426	30	0.192	24	0.181	30	92.32	30	0.00
12/06/13	24		0.429	30	0.204	24	0.178	30	92.43	30	0.00
12/07/13	24		0.433	30	0.192	24	0.180	30	92.37	30	0.00
12/08/13	24		0.437	30	0.195	24	0.180	30	92.34	30	0.00
12/09/13	24		0.441	30	0.183	24	0.179	30	92.40	30	0.00
12/10/13	24		0.444	30	0.143	24	0.177	30	92.48	30	0.00
12/11/13	24		0.447	30	0.142	24	0.175	30	92.58	30	0.00
12/12/13	24		0.450	30	0.082	24	0.172	30	92.71	30	0.00
12/13/13	24		0.453	30	0.109	24	0.171	30	92.78	30	0.00
12/14/13	24		0.457	30	0.161	24	0.170	30	92.83	30	0.00
12/15/13	24		0.461	30	0.160	24	0.171	30	92.83	30	0.00
12/16/13	24		0.465	30	0.144	24	0.168	30	92.95	30	0.00
12/17/13	24		0.470	30	0.148	24	0.166	30	93.03	30	0.00

Date	Operating Hours		NOx		SO2		SO2		SO2		0.00
	CEMS		30-Day		24-Hr		30-Day		30-Day		
			lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	
12/18/13	24		0.471	30	0.159	24	0.164	30	93.12	30	0.00
12/19/13	24		0.469	30	0.145	24	0.163	30	93.20	30	0.00
12/20/13	24		0.468	30	0.198	24	0.166	30	93.08	30	0.00
12/21/13	24		0.467	30	0.138	24	0.166	30	93.07	30	0.00
12/22/13	24		0.467	30	0.180	24	0.165	30	93.10	30	0.00
12/23/13	24		0.466	30	0.245	24	0.167	30	93.03	30	0.00
12/24/13	24		0.465	30	0.133	24	0.166	30	93.07	30	0.00
12/25/13	24		0.464	30	0.161	24	0.166	30	93.08	30	0.00
12/26/13	24		0.463	30	0.170	24	0.165	30	93.14	30	0.00
12/27/13	24		0.461	30	0.115	24	0.164	30	93.18	30	0.00
12/28/13	24		0.458	30	0.168	24	0.164	30	93.15	30	0.00
12/29/13	24		0.456	30	0.090	24	0.161	30	93.28	30	0.00
12/30/13	24		0.456	30	0.170	24	0.161	30	93.27	30	0.00
12/31/13	24		0.458	30	0.161	24	0.161	30	93.29	30	0.00

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 Opacity

Emission Limitation: 10

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 17563 periods

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

		%
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	198	1.13
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	9	0.05
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	207	1.18

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary

		% Excess
	Duration	Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	10	0.06
3. Process Problems	2	0.01
4. Other Known Causes	2	0.01
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	14	0.08

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice
NAME

Jason M. Prentice
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Env. Planner
TITLE

1-30-14
DATE

TESFiler0002682

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 NOx lb/mmBtu 30-Day

Emission Limitation: 0.60

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/20/13

Total Source Operating Time in Reporting Period: 1756 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	1	0.06
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.06

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice
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1-30-14
DATE

TESFiler0002683

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO₂ lb/mmBtu 24-Hr

Emission Limitation: 0.7

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/20/13

Total Source Operating Time in Reporting Period: 1756 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	1	0.06
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.06

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	27	1.54
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	27	1.54

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice
NAME

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1-30-14
DATE

TESFiler0002684

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO₂ lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/20/13

Total Source Operating Time in Reporting Period: 1756 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

		%
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	1	0.06
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	1	0.06

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

		% Excess
	Duration	Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice
NAME

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TITLE

1-30-14
DATE

TESFiler0002685

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 SO2 Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/20/13

Total Source Operating Time in Reporting Period: 1756 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
		Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:			
1. Monitor Equipment Malfunctions		1	0.06
2. Non-Monitor CEMS Equipment Malfunction		0	0.00
3. Calibration/QA		2	0.11
4. Other Known Causes		0	0.00
5. Unknown Causes		0	0.00
2. Total CEMS Downtime		3	0.17

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:		% Excess Emissions(2)
	Duration	
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice
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1-30-14
DATE

TESFiler0002686

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boilers Total SO₂ Tons

Emission Limitation: 6.45

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boilers

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 1763 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

		%
	Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	2	0.11
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	2	0.11

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

		% Excess
	Duration	Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice
NAME

Jason M. Prentice
SIGNATURE

Env. Planner
TITLE

1-30-14
DATE

TESFiler0002687

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 CO lb/mmBtu 24-Hr

Emission Limitation: 0.3

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/20/13

Total Source Operating Time in Reporting Period: 1756 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
		%	
		Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:			
1. Monitor Equipment Malfunctions		0	0.00
2. Non-Monitor CEMS Equipment Malfunction		0	0.00
3. Calibration/QA		1	0.06
4. Other Known Causes		0	0.00
5. Unknown Causes		0	0.00
2. Total CEMS Downtime		1	0.06

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:		% Excess Emissions(2)
		Duration
1. Startup/Shutdown		0
2. Control Equip Problems		0
3. Process Problems		0
4. Other Known Causes		0
5. Unknown Causes		0
2. Total duration of excess emissions.....		0

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this report are true, accurate, and complete.

Jason M. Prentice
NAME

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1-30-14
DATE

TESFiler0002688

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 1 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 1

Date of Last CEMS Certification or Audit: 08/20/13

Total Source Operating Time in Reporting Period: 1756 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	8	0.46
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	8	0.46

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	19	1.08
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	19	1.08

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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1-30-14
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TESFiler0002689

Continuous Emission Monitor Quarterly Report Summary
Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 Opacity

Emission Limitation: 10

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 19947 periods

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
		%	
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)	
1. Monitor Equipment Malfunctions	2	0.01	
2. Non-Monitor CEMS Equipment Malfunction	0	0.00	
3. Calibration/QA	6	0.03	
4. Other Known Causes	0	0.00	
5. Unknown Causes	0	0.00	
2. Total CEMS Downtime	8	0.04	

Durations in 6-minute periods

(1) % Unavailable is calculated by the following formula:

% Unavailable = CEMS Downtime during Source Operating Time/ Source Operating Time x 100

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	4	0.02
2. Control Equip Problems	0	0.00
3. Process Problems	3	0.02
4. Other Known Causes	4	0.02
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	11	0.06

Durations in 6-minute periods

(2) % Excess Emissions is calculated by the following formulas:

% Excess Emissions = Total Duration of Excess Emissions/ Source Operating Time x 100

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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TESFiler0002690

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 NOx lb/mmBtu 30-Day

Emission Limitation: 0.60

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 1719 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
		Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:			
1. Monitor Equipment Malfunctions		43	2.50
2. Non-Monitor CEMS Equipment Malfunction		0	0.00
3. Calibration/QA		2	0.12
4. Other Known Causes		0	0.00
5. Unknown Causes		0	0.00
2. Total CEMS Downtime		45	2.62

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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TESFiler0002691

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO₂ lb/mmBtu 24-Hr

Emission Limitation: 0.7

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 1719 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
		%	
		Duration	Unavailable (1)
1. CEMS downtime in reporting period due to:			
1. Monitor Equipment Malfunctions		0	0.00
2. Non-Monitor CEMS Equipment Malfunction		0	0.00
3. Calibration/QA		2	0.12
4. Other Known Causes		0	0.00
5. Unknown Causes		0	0.00
2. Total CEMS Downtime		2	0.12

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:		
	Duration	% Excess Emissions(2)
1. Startup/Shutdown	8	0.47
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	8	0.47

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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TESFiler0002692

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO₂ lb/mmBtu 30-Day

Emission Limitation: 0.5

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 1719 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
			%
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)	
1. Monitor Equipment Malfunctions	0	0.00	
2. Non-Monitor CEMS Equipment Malfunction	0	0.00	
3. Calibration/QA	2	0.12	
4. Other Known Causes	0	0.00	
5. Unknown Causes	0	0.00	
2. Total CEMS Downtime	2	0.12	

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary		
1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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TESFiler0002693

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 SO₂ Reduction 30-Day

Emission Limitation: 90

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 1719 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

	Duration	% Unavailable (1)
1. CEMS downtime in reporting period due to:		
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	2	0.12
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	2	0.12

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

	Duration	% Excess Emissions(2)
1. Duration of excess emissions in reporting period due to:		
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

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TESFiler0002694

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 CO lb/mmBtu 24-Hr

Emission Limitation: 0.3

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 1719 hours

CEMS Performance Summary		Total CEMS Downtimes including exemptions	
			%
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)	
1. Monitor Equipment Malfunctions	3	0.17	
2. Non-Monitor CEMS Equipment Malfunction	0	0.00	
3. Calibration/QA	3	0.17	
4. Other Known Causes	0	0.00	
5. Unknown Causes	0	0.00	
2. Total CEMS Downtime	6	0.35	

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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1-30-14

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TESFiler0002695

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Boiler 2 CO lb/hr 24-Hr

Emission Limitation: 115.2

Reporting Period Dates: From 10/01/2013 To 12/31/2013

Company Name: T.E.S. Filer City Station

Address: Filer City, MI

Process Unit Description: Boiler 2

Date of Last CEMS Certification or Audit: 08/21/13

Total Source Operating Time in Reporting Period: 1719 hours

CEMS Performance Summary

Total CEMS Downtimes
including exemptions

		%
1. CEMS downtime in reporting period due to:	Duration	Unavailable (1)
1. Monitor Equipment Malfunctions	0	0.00
2. Non-Monitor CEMS Equipment Malfunction	0	0.00
3. Calibration/QA	11	0.64
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total CEMS Downtime	11	0.64

Durations in hours

(1) % Unavailable is calculated by the following formula:

$$\% \text{ Unavailable} = \text{CEMS Downtime during Source Operating Time} / \text{Source Operating Time} \times 100$$

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions(2)
1. Startup/Shutdown	0	0.00
2. Control Equip Problems	0	0.00
3. Process Problems	0	0.00
4. Other Known Causes	0	0.00
5. Unknown Causes	0	0.00
2. Total duration of excess emissions.....	0	0.00

Durations in hours

(2) % Excess Emissions is calculated by the following formulas:

$$\% \text{ Excess Emissions} = \text{Total Duration of Excess Emissions} / \text{Source Operating Time} \times 100$$

On a separate page, describe any changes since last reporting period in CMS, process or controls.

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1-30-14
DATE

TESFiler0002696

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Opacity

Data in the Reporting Period: 10/01/13 to 12/31/13

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/15/13 09:42:37	10/15/13 09:47:37	1	13=Process Down	4=Other Known Causes	Boiler Down, Maint. on ID fan
2	10/18/13 16:36:40	10/18/13 17:05:34	5	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Boiler Startup, changed out LED source.
3	10/18/13 17:12:37	10/19/13 03:29:44	103	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Boiler Startup, changed out LED source.
4	10/19/13 09:12:37	10/19/13 09:41:45	5	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Boiler Startup, changed out LED source.
5	10/19/13 09:48:44	10/19/13 13:35:36	38	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Boiler Startup, changed out LED source.
6	10/19/13 13:42:40	10/19/13 13:53:36	2	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Boiler Startup, changed out LED source.
7	10/19/13 14:00:33	10/19/13 17:59:35	40	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Boiler Startup, changed out LED source.
8	11/05/13 14:36:37	11/05/13 15:29:33	9	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly Cals

Total Downtime in the Reporting Period = 203 Periods , Data Availability for this Reporting Period = 98.84 %

Total Operating Time in the Reporting Period = 17559 Periods

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: NOx CEMS

Data in the Reporting Period: 10/01/13 to 12/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	11/06/13 10:00:45	11/06/13 10:59:45	1	14=Recalibration	3=Quality Assurance Calibrations	Completed quarterly cals

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.94 %

Total Operating Time in the Reporting Period = 1756 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 CEMS

Data in the Reporting Period: 10/01/13 to 12/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	11/06/13 10:00:45	11/06/13 10:59:45	1	14=Recalibration	3=Quality Assurance Calibrations	Completed Quarterly cals

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.94 %

Total Operating Time in the Reporting Period = 1756 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO #/MMBTU CEMS

Data in the Reporting Period: 10/01/13 to 12/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	11/06/13 10:00:45	11/06/13 10:59:45	1	14=Recalibration	3=Quality Assurance Calibrations	Completed Quarterly cals

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.94 %

Total Operating Time in the Reporting Period = 1756 hours

Downtime Report

Facility Name: T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** CO #/HOUR CEMS**Data in the Reporting Period: 10/01/13 to 12/31/13**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/15/13 09:00:32	10/15/13 09:59:32	1	98=Automatic Calibration	3=Quality Assurance Calibrations	Completed Cal
2	10/18/13 16:00:37	10/18/13 17:59:44	2	98=Automatic Calibration	3=Quality Assurance Calibrations	Completed Cal
3	10/19/13 09:00:31	10/19/13 09:59:31	1	98=Automatic Calibration	3=Quality Assurance Calibrations	Completed Cal
4	10/21/13 12:00:33	10/21/13 12:59:33	1	98=Automatic Calibration	3=Quality Assurance Calibrations	Completed Cal
5	11/05/13 16:00:39	11/05/13 17:59:43	2	98=Automatic Calibration	3=Quality Assurance Calibrations	Completed Cal
6	11/06/13 10:00:45	11/06/13 10:59:45	1	14=Recalibration	3=Quality Assurance Calibrations	Completed Quarterly cals

Total Downtime in the Reporting Period = 8 hours , Data Availability for this Reporting Period = 99.54 %**Total Operating Time in the Reporting Period = 1756 hours**

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO2 Analyzer

Data in the Reporting Period: 10/01/13 to 12/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	11/06/13 10:00:45	11/06/13 10:59:45	1	14=Recalibration	3=Quality Assurance Calibrations	Completed Quarterly cals

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.94 %

Total Operating Time in the Reporting Period = 1756 hours

TESFiler0002702

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Flow Analyzer

Data in the Reporting Period: 10/01/13 to 12/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 1756 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Inlet SO2 CEMS

Data in the Reporting Period: 10/01/13 to 12/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/18/13 17:00:44	10/18/13 17:59:44	1	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Start-up, completed initial cal
2	11/06/13 15:00:33	11/06/13 15:59:33	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly cal

Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.89 %

Total Operating Time in the Reporting Period = 1756 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Inlet CO2 Analyzer

Data in the Reporting Period: 10/01/13 to 12/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/18/13 16:00:37	10/18/13 16:59:37	1	14=Recalibration	3=Quality Assurance Calibrations	Boiler startup, completed initial cal
2	11/06/13 15:00:33	11/06/13 15:59:33	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly cals

Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.89 %

Total Operating Time in the Reporting Period = 1756 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Opacity

Data in the Reporting Period: 10/01/13 to 12/31/13

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/09/13 14:18:32	10/09/13 14:29:32	2	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Boiler down, annual maintenance outage
2	11/05/13 15:30:32	11/05/13 16:05:39	6	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly cals

Total Downtime in the Reporting Period = 8 Periods , Data Availability for this Reporting Period = 99.96 %

Total Operating Time in the Reporting Period = 19947 Periods

Downtime Report

Facility Name: T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 2**Parameter:** NOx CEMS**Data in the Reporting Period: 10/01/13 to 12/31/13**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/21/13 21:00:40	10/21/13 21:59:40	1	14=Recalibration	3=Quality Assurance Calibrations	Boiler Startup, initial cal
2	10/26/13 18:00:37	10/28/13 07:59:35	38	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	NOX Thermistor Erratic--Recalibrated and replaced
3	10/29/13 06:00:44	10/29/13 07:59:35	2	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Thermistor was replaced and system analyzer was
4	11/05/13 17:00:33	11/05/13 17:59:33	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly cal
5	11/22/13 14:00:35	11/22/13 16:59:32	3	12=Excess Drift Ancillary Analyzer	1=Monitor Equip Malfunctions	Checked system and ran a Calibration. All Passed.

Total Downtime in the Reporting Period = 45 hours , Data Availability for this Reporting Period = 97.38 %**Total Operating Time in the Reporting Period = 1719 hours**

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 CEMS

Data in the Reporting Period: 10/01/13 to 12/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/21/13 21:00:40	10/21/13 21:59:40	1	14=Recalibration	3=Quality Assurance Calibrations	Boiler startup, initial cal
2	11/05/13 17:00:33	11/05/13 17:59:33	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly cals

Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.88 %

Total Operating Time in the Reporting Period = 1719 hours

Downtime Report

Facility Name: T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 2**Parameter:** CO #/MMBTU CEMS**Data in the Reporting Period: 10/01/13 to 12/31/13**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/21/13 21:00:40	10/21/13 21:59:40	1	14=Recalibration	3=Quality Assurance Calibrations	Boiler Startup, initial cal
2	11/05/13 17:00:33	11/05/13 17:59:33	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly cals
3	12/18/13 06:00:37	12/18/13 08:59:45	3	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Replaced IR source and measurement card
4	12/18/13 11:00:35	12/18/13 11:59:35	1	14=Recalibration	3=Quality Assurance Calibrations	Completed cal after IR source and measurement card

Total Downtime in the Reporting Period = 6 hours , Data Availability for this Reporting Period = 99.65 %**Total Operating Time in the Reporting Period = 1719 hours**

Downtime Report

Facility Name: T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler2**Parameter:** CO #/HOUR CEMS**Data in the Reporting Period: 10/01/13 to 12/31/13**

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/12/13 08:00:32	10/12/13 08:59:32	1	98=Automatic Calibration	3=Quality Assurance Calibrations	Boiler down, Annual maintenance outage
2	10/19/13 16:00:35	10/19/13 16:59:35	1	98=Automatic Calibration	3=Quality Assurance Calibrations	Boiler startup
3	10/21/13 12:00:38	10/21/13 12:59:38	1	98=Automatic Calibration	3=Quality Assurance Calibrations	Boiler Startup
4	10/21/13 21:00:40	10/21/13 21:59:40	1	14=Recalibration	3=Quality Assurance Calibrations	Boiler shutdown, maintenance
5	11/05/13 16:00:36	11/05/13 17:59:33	2	98=Automatic Calibration	3=Quality Assurance Calibrations	Completed Quarterly cal
6	12/18/13 05:00:33	12/18/13 08:59:45	4	98=Automatic Calibration	3=Quality Assurance Calibrations	Completed Stack cal
7	12/18/13 11:00:35	12/18/13 11:59:35	1	14=Recalibration	3=Quality Assurance Calibrations	Replaced IR source and measurement card, recal

Total Downtime in the Reporting Period = 11 hours , Data Availability for this Reporting Period = 99.36 %**Total Operating Time in the Reporting Period = 1719 hours**

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO2 Analyzer

Data in the Reporting Period: 10/01/13 to 12/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/21/13 21:00:40	10/21/13 21:59:40	1	14=Recalibration	3=Quality Assurance Calibrations	Boiler shutdown, maintenance
2	11/05/13 17:00:33	11/05/13 17:59:33	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly cals

Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.88 %

Total Operating Time in the Reporting Period = 1719 hours

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Flow Analyzer

Data in the Reporting Period: 10/01/13 to 12/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 1719 hours

TESFiler0002712

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Inlet SO2 CEMS

Data in the Reporting Period: 10/01/13 to 12/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/21/13 21:00:40	10/21/13 21:59:40	1	14=Recalibration	3=Quality Assurance Calibrations	Boiler shutdown, maintenance

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.94 %

Total Operating Time in the Reporting Period = 1719 hours

TESFiler0002713

Downtime Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Inlet CO2 Analyzer

Data in the Reporting Period: 10/01/13 to 12/31/13

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	10/21/13 21:00:40	10/21/13 21:59:40	1	14=Recalibration	3=Quality Assurance Calibrations	Boiler shutdown, maintenance

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.94 %

Total Operating Time in the Reporting Period = 1719 hours

TESFiler0002714

Excess Emissions Report

Facility Name: T.E.S. Filer City Station**Location:** Filer City, MI**Source:** Boiler 1**Parameter:** Opacity**Limit:** 10**Data in the Reporting Period: 10/01/13 to 12/31/13**

Inc No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	11/05/13 05:30:33	11/05/13 05:41:38	2	54	Other Known Causes	Quarterly Calibrations	Calibrated and adjusted.
2	12/10/13 10:06:35	12/10/13 10:11:35	1	12	Process Problems	Process Upsets	Adjusted Process
3	12/16/13 23:42:35	12/17/13 00:05:33	4	20	Control Equip Problems	Heater Failure on Opacity System.	Replaced Heater and Calibrated.
4	12/17/13 00:36:37	12/17/13 01:11:36	6	13	Control Equip Problems	Heater not getting to proper Temp.	Adjusted Heater Temperatures.
5	12/23/13 09:36:41	12/23/13 09:41:41	1	15	Process Problems	Process Upsets.	Adjusted Process.

Total Duration in the Reporting Period = 14 Periods , Percentage of Operating Time above Excess Emission Limit = 0.08 %**Total Operating Time in the Reporting Period = 17563 Periods**

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: NOx lb/mmBtu 30-Day

Limit: 0.60

Data in the Reporting Period: 10/01/13 to 12/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1756 hours

TESFiler0002716

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 lb/mmBtu Daily Ave.

0.7

Data in the Reporting Period: 10/01/13 to 12/31/13

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
1	10/18/13 00:00:59	10/18/13 23:59:59	8	1.2	0.7	Startup/Shutdown	Plant Start Up after Fall Outage. Problems	Calibrated all Analyzers.
2	10/19/13 00:00:59	10/19/13 23:59:59	19	1.3	0.7	Startup/Shutdown	Plant Start Up after Fall Outage.	Calibrated all the Analyzers.

Total Duration in the Reporting Period = 27 hours , Percentage of Operating Time above Excess Emission Limit = 1.54 %

Total Operating Time in the Reporting Period = 1756 hours

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 lb/mmBtu 30-Day

Limit: 0.5

Data in the Reporting Period: 10/01/13 to 12/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1756 hours

TESFiler0002718

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 Reduction 30-Day

Limit: 90

Data in the Reporting Period: 10/01/13 to 12/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1756 hours

TESFiler0002719

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boilers

Parameter: Total SO2 Tons

Limit: 6.45

Data in the Reporting Period: 10/01/13 to 12/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1763 hours

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO lb/mmBtu 24-Hr Roll

Limit: 0.3

Data in the Reporting Period: 10/01/13 to 12/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1756 hours

TESFiler0002721

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO lb/hr 24-Hr Roll

Limit: 115.2

Data in the Reporting Period: 10/01/13 to 12/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	10/19/13 17:00:35	10/20/13 11:59:35	19	203.1	283.9	Startup/Shutdown	Start Up after Fall Outage	

Total Duration in the Reporting Period = 19 hours , Percentage of Operating Time above Excess Emission Limit = 1.08 %

Total Operating Time in the Reporting Period = 1756 hours

TESFiler0002722

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Opacity

Limit: 10

Data in the Reporting Period: 10/01/13 to 12/31/13

Inc No.	Start Date	End Date	Duration Periods	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	10/12/13 08:36:39	10/12/13 08:41:39	1	12	12	Other Known Causes	Unit Down for Annual Fall Outage	Complete repairs and Start Up
2	10/22/13 22:12:35	10/22/13 22:17:35	1	20	20	Startup/Shutdown	Shut Down Unit #2 for Grate Problems	Repair Problems and Start up
3	10/22/13 22:48:39	10/22/13 23:05:35	3	53	90	Startup/Shutdown	Unit #2 down for Grate Problems	Repair and Start Up
4	11/05/13 10:36:36	11/05/13 10:41:36	1	41	41	Other Known Causes	Quarterly PM s and Calibrations	Complete Quarterly work.
5	11/14/13 21:30:34	11/14/13 21:35:34	1	23	23	Other Known Causes	Replaced Span ^ bottle	Calibrated and put back into Service
6	11/14/13 21:42:32	11/14/13 21:47:32	1	11	11	Other Known Causes	Replaced Span ^ bottle	Calibrated and put back into Service
7	11/23/13 12:12:36	11/23/13 12:17:36	1	13	13	Process Problems	Process Upset	Corrected problems
8	12/03/13 10:54:38	12/03/13 11:05:35	2	38	43	Process Problems	Process Problems	Corrected Problems

Total Duration in the Reporting Period = 11 Periods , Percentage of Operating Time above Excess Emission Limit = 0.06 %

Total Operating Time in the Reporting Period = 19947 Periods

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: NOx lb/mmBtu 30-Day

Limit: 0.60

Data in the Reporting Period: 10/01/13 to 12/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1719 hours

TESFiler0002724

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 lb/mmBtu Daily Ave.

0.7

Data in the Reporting Period: 10/01/13 to 12/31/13

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
1	10/19/13 00:00:59	10/19/13 23:59:59	8	1.1	0.7	Startup/Shutdown	Start Up	Follow Starting procedures.

Total Duration in the Reporting Period = 8 hours , Percentage of Operating Time above Excess Emission Limit = 0.47 %

Total Operating Time in the Reporting Period = 1719 hours

TESFiler0002725

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 lb/mmBtu 30-Day

Limit: 0.5

Data in the Reporting Period: 10/01/13 to 12/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1719 hours

TESFiler0002726

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 Reduction 30-Day

Limit: 90

Data in the Reporting Period: 10/01/13 to 12/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1719 hours

TESFiler0002727

Excess Emissions Report

Page 1 of 1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO lb/mmBtu 24-Hr Roll

Limit: 0.3

Data in the Reporting Period: 10/01/13 to 12/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1719 hours

TESFiler0002728

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO lb/hr 24-Hr Roll

Limit: 115.2

Data in the Reporting Period: 10/01/13 to 12/31/13

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1719 hours

Linearity Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i

Serial Number: 0623017966

Low-Level Calibration Gas
(20-30% of Span)
(100.00 ppm - 150.00 ppm)

Concentration: 124.00
Cylinder No.: CC27079
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Mid-Level Calibration Gas
(50-60% of Span)
(250.00 ppm - 300.00 ppm)

Concentration: 275.00
Cylinder No.: CC214741
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

High-Level Calibration Gas
(80-100% of Span)
(400.00 ppm - 500.00 ppm)

Concentration: 422.20
Cylinder No.: XC022631B
Expiration Date: 07/29/21

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Test Date: 11/06/13

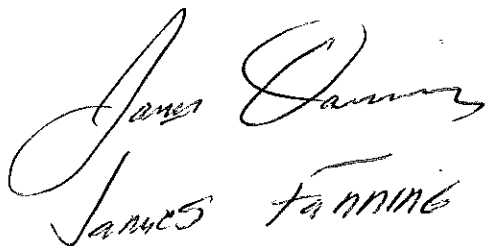
Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:08:40	125.40	12:13:32	274.10	12:18:39	415.70
Run 2	12:36:35	125.90	12:41:36	276.90	12:46:36	420.10
Run 3	13:08:34	127.40	13:13:36	277.50	13:18:36	421.30
Avg. Monitor Response		126.233		276.167		419.033
Linearity Error		1.8		0.4		0.8
Absolute Difference		2.2		1.2		3.2
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} | \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm


James Fanning

Linearity Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717877

Low-Level Calibration Gas
(20-30% of Span)
(40.000 ppm - 60.000 ppm)
Concentration: 49.380
Cylinder No.: CC27079
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Mid-Level Calibration Gas
(50-60% of Span)
(100.00 ppm - 120.00 ppm)
Concentration: 108.30
Cylinder No.: CC214741
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

High-Level Calibration Gas
(80-100% of Span)
(160.00 ppm - 200.00 ppm)
Concentration: 170.90
Cylinder No.: XC022631B
Expiration Date: 07/29/21

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Test Date: 11/06/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:08:40	49.500	12:13:32	107.00	12:18:39	165.80
Run 2	12:36:35	49.300	12:41:36	106.20	12:46:36	168.50
Run 3	13:08:34	50.200	13:13:36	107.40	13:18:36	168.60
Avg. Monitor Response		49.667		106.867		167.633
Linearity Error		0.6		1.3		1.9
Absolute Difference		0.3		1.4		3.3
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

James Fanning
James Fanning

Linearity Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Bir 1 SO2 High Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717877

Low-Level Calibration Gas
(20-30% of Span)
(400.00 ppm - 600.00 ppm)

Concentration: 502.30
Cylinder No.: CC39257
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO2,SO2,BALN

Mid-Level Calibration Gas
(50-60% of Span)
(1000.0 ppm - 1200.0 ppm)

Concentration: 1099.0
Cylinder No.: CC151205
Expiration Date: 11/16/14

Vendor ID: B62011
Gas Type Code: CO2,SO2,BALN

High-Level Calibration Gas
(80-100% of Span)
(1600.0 ppm - 2000.0 ppm)

Concentration: 1694.0
Cylinder No.: XC034480B
Expiration Date: 07/26/14

Vendor ID: B62013
Gas Type Code: CO2,SO2,BALN

Test Date: 11/06/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	13:30:39	497.60	13:35:40	1090.6	13:40:47	1680.4
Run 2	13:53:38	502.40	13:58:41	1088.0	14:03:41	1662.0
Run 3	14:22:41	504.60	14:27:48	1098.4	14:32:51	1682.2
Avg. Monitor Response		501.533		1092.33		1674.87
Linearity Error		0.2		0.6		1.1
Absolute Difference		0.8		6.7		19.1
Test Status		Pass		Pass		Pass

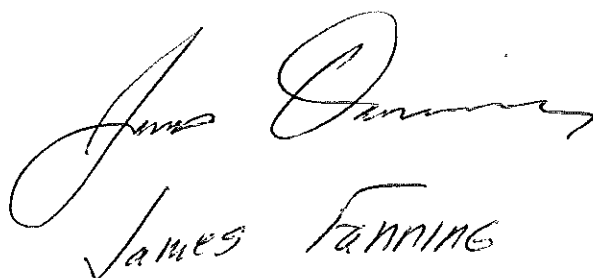
$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm


James Fanning

Linearity Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Bir 1 CO Low Audit Test Results Analyzer Span: 300.0 ppm

Mfr & Model: Thermo 48I

Serial Number: 0622717887

Low-Level Calibration Gas
(20-30% of Span)
(60.0 ppm - 90.0 ppm)

Concentration: 74.5
Cylinder No.: CC27079
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code:

Mid-Level Calibration Gas
(50-60% of Span)
(150.0 ppm - 180.0 ppm)

Concentration: 164.0
Cylinder No.: CC214741
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code:

High-Level Calibration Gas
(80-100% of Span)
(240.0 ppm - 300.0 ppm)

Concentration: 254.1
Cylinder No.: XC022631B
Expiration Date: 07/29/21

Vendor ID: B62011
Gas Type Code:

Test Date: 11/06/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:08:40	75.2	12:13:32	165.6	12:18:39	252.5
Run 2	12:36:35	73.7	12:41:36	167.1	12:46:36	252.3
Run 3	13:08:34	73.6	13:13:36	165.9	13:18:36	253.5
Avg. Monitor Response		74.167		166.200		252.767
Linearity Error		0.4		1.3		0.5
Absolute Difference		0.3		2.2		1.3
Test Status		Pass		Pass		Pass

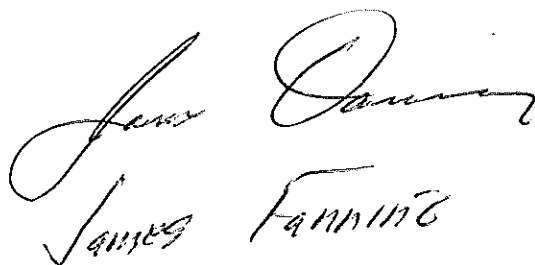
$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm


James Fanning

Linearity Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 CO High Audit Test Results Analyzer Span: 3000.0 ppm

Mfr & Model: Thermo 48i

Serial Number: 0622717887

Low-Level Calibration Gas
(20-30% of Span)
(600.0 ppm - 900.0 ppm)

Concentration: 742.4
Cylinder No.: CC392257
Expiration Date: 11/16/14

Vendor ID: B62011
Gas Type Code:

Mid-Level Calibration Gas
(50-60% of Span)
(1500.0 ppm - 1800.0 ppm)

Concentration: 1639.0
Cylinder No.: CC151205
Expiration Date: 11/16/14

Vendor ID: B62011
Gas Type Code:

High-Level Calibration Gas
(80-100% of Span)
(2400.0 ppm - 3000.0 ppm)

Concentration: 2526.0
Cylinder No.: XC034480B
Expiration Date: 07/26/21

Vendor ID: B62011
Gas Type Code:

Test Date: 11/06/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	13:30:39	723.9	13:35:40	1632.0	13:40:47	2520.6
Run 2	13:53:38	742.8	13:58:41	1634.4	14:03:41	2518.5
Run 3	14:22:41	741.9	14:27:48	1637.4	14:32:51	2519.4
Avg. Monitor Response		736.200		1634.60		2519.50
Linearity Error		0.8		0.3		0.3
Absolute Difference		6.2		4.4		6.5
Test Status		Pass		Pass		Pass


$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} | \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm


James Fanning

Linearity Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i

Serial Number: 0622717869

Low-Level Calibration Gas
(20-30% of Span)
(4.000 % - 6.000 %)

Concentration: 5.550
Cylinder No.: CC27079
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Mid-Level Calibration Gas
(50-60% of Span)
(10.000 % - 12.000 %)

Concentration: 11.020
Cylinder No.: CC214741
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

High-Level Calibration Gas
(80-100% of Span)
(16.000 % - 20.000 %)

Concentration: 17.090
Cylinder No.: XC022631B
Expiration Date: 07/29/21

Vendor ID: B62013
Gas Type Code: CO,CO2,NO,SO2,BALN

Test Date: 11/06/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:08:40	5.560	12:13:32	11.020	12:18:39	17.080
Run 2	12:36:35	5.580	12:41:36	11.010	12:46:36	17.080
Run 3	13:08:34	5.570	13:13:36	11.020	13:18:36	17.080
Avg. Monitor Response		5.570		11.017		17.080
Linearity Error		0.4		0.0		0.1
Absolute Difference		0.0		0.0		0.0
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm


James Fanning

CGA Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Bir 1 Inlet SO2 Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717879

Low-Level Calibration Gas Concentration: 502.3
(20-30% of Span) Cylinder No.: CC39257
(400.0 ppm - 600.0 ppm) Expiration Date: 11/16/14

Mid-Level Calibration Gas Concentration: 1099.0
(50-60% of Span) Cylinder No.: CC151205
(1000.0 ppm - 1200.0 ppm) Expiration Date: 11/16/14

Test Date: 11/07/13

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	08:23:35	506.0	08:29:39	1099.2
Run 2	08:44:39	507.2	08:50:43	1094.6
Run 3	09:09:41	507.0	09:15:46	1086.8
Avg. Monitor Response		506.7		1093.5
Calibration Error		0.900		-0.500
Absolute Difference		4.4		5.5
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

Print Name:

Technician/Service Representative

CGA Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i

Serial Number: 0622717873

Low-Level Calibration Gas Concentration: 5.55
(5.00% - 8.00%) Cylinder No.: CC39257
Expiration Date: 11/16/14

Mid-Level Calibration Gas Concentration: 11.05
(10.00% - 14.00%) Cylinder No.: CC151205
Expiration Date: 11/16/14

Test Date: 11/07/13

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	08:23:35	5.60	08:29:39	11.05
Run 2	08:44:39	5.62	08:50:43	11.03
Run 3	09:09:41	5.60	09:15:46	11.04
Avg. Monitor Response		5.61		11.04
Calibration Error		1.100		-0.100
Absolute Difference		0.06		0.01
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

Print Name:

James Fanning
James Fanning
Technician/Service Representative

Linearity Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i

Serial Number: 0623017967

Low-Level Calibration Gas Concentration: 124.00
(20-30% of Span) Cylinder No.: CC27079
(100.00 ppm - 150.00 ppm) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Mid-Level Calibration Gas Concentration: 275.00
(50-60% of Span) Cylinder No.: CC214741
(250.00 ppm - 300.00 ppm) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

High-Level Calibration Gas Concentration: 422.20
(80-100% of Span) Cylinder No.: XC022631B
(400.00 ppm - 500.00 ppm) Expiration Date: 07/29/21

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Test Date: 11/06/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:38:38	125.80	12:43:45	272.70	12:48:45	419.10
Run 2	13:08:34	127.10	13:13:37	276.10	13:18:38	418.10
Run 3	13:30:36	126.70	13:35:36	273.70	13:40:37	419.60
Avg. Monitor Response		126.533		274.167		418.933
Linearity Error		2.0		0.3		0.8
Absolute Difference		2.5		0.8		3.3
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

James Fanning
James Fanning

Linearity Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717880

Low-Level Calibration Gas Concentration: 49.400
(20-30% of Span) Cylinder No.: CC27079
(40.000 ppm - 60.000 ppm) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Mid-Level Calibration Gas Concentration: 108.30
(50-60% of Span) Cylinder No.: CC214741
(100.00 ppm - 120.00 ppm) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

High-Level Calibration Gas Concentration: 170.90
(80-100% of Span) Cylinder No.: XC022631B
(160.00 ppm - 200.00 ppm) Expiration Date: 07/29/21

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Test Date: 11/06/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:38:38	50.100	12:43:45	107.40	12:48:45	166.50
Run 2	13:08:34	50.700	13:13:37	108.50	13:18:38	166.60
Run 3	13:30:36	49.600	13:35:36	107.90	13:40:37	167.80
Avg. Monitor Response		50.133		107.933		166.967
Linearity Error		1.5		0.3		2.3
Absolute Difference		0.7		0.4		3.9
Test Status		Pass		Pass		Pass


$$\text{Linearity Error} = \frac{\text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |}{\text{Cal. Gas Concentration}} \times 100$$

$$\text{Absolute Difference} = \text{ABS} | \text{Cal. Gas Concentration} - \text{Avg. Monitor Response} |$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm


James Fanning

Linearity Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 SO2 High Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717880

Low-Level Calibration Gas Concentration: 502.30
(20-30% of Span) Cylinder No.: CC39257
(400.00 ppm - 600.00 ppm) Expiration Date: 11/16/14

Vendor ID: B62011
Gas Type Code: CO2,SO2,BALN

Mid-Level Calibration Gas Concentration: 1099.0
(50-60% of Span) Cylinder No.: CC151205
(1000.0 ppm - 1200.0 ppm) Expiration Date: 11/16/14

Vendor ID: B62011
Gas Type Code: CO2,SO2,BALN

High-Level Calibration Gas Concentration: 1694.0
(80-100% of Span) Cylinder No.: XC034480B
(1600.0 ppm - 2000.0 ppm) Expiration Date: 07/26/21

Vendor ID: B62013
Gas Type Code: CO2,SO2,BALN

Test Date: 11/06/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	13:53:41	505.40	13:58:41	1111.2	14:03:48	1666.0
Run 2	14:22:37	502.20	14:27:38	1095.4	14:32:39	1680.8
Run 3	14:43:38	510.60	14:48:40	1106.2	14:53:39	1681.4
Avg. Monitor Response		506.067		1104.27		1676.07
Linearity Error		0.8		0.5		1.1
Absolute Difference		3.8		5.3		17.9
Test Status		Pass		Pass		Pass

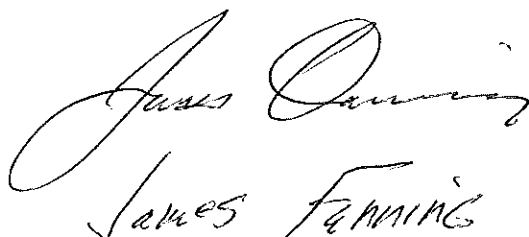
$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm


James Fanning

Linearity Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 CO Low Audit Test Results Analyzer Span: 300.0 ppm

Mfr & Model: Thermo 48I

Serial Number: 0622717888

Low-Level Calibration Gas
(20-30% of Span)
(60.0 ppm - 90.0 ppm)

Concentration: 74.5
Cylinder No.: CC27079
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code:

Mid-Level Calibration Gas
(50-60% of Span)
(150.0 ppm - 180.0 ppm)

Concentration: 164.0
Cylinder No.: CC214741
Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code:

High-Level Calibration Gas
(80-100% of Span)
(240.0 ppm - 300.0 ppm)

Concentration: 254.1
Cylinder No.: XC022631B
Expiration Date: 07/29/21

Vendor ID: B62011
Gas Type Code:

Test Date: 11/06/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:38:38	74.7	12:43:45	163.6	12:48:45	251.4
Run 2	13:08:34	75.6	13:13:37	166.2	13:18:38	253.1
Run 3	13:30:36	76.7	13:35:36	165.8	13:40:37	255.8
Avg. Monitor Response		75.667		165.200		253.433
Linearity Error		1.6		0.7		0.3
Absolute Difference		1.2		1.2		0.7
Test Status		Pass		Pass		Pass

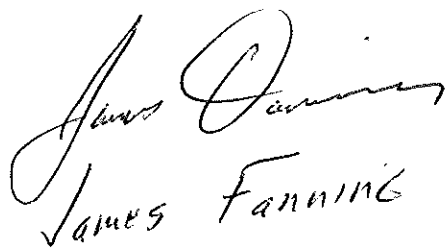
$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm


James Fanning

Linearity Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 CO High Audit Test Results Analyzer Span: 3000.0 ppm

Mfr & Model: Thermo 48i

Serial Number: 0622717888

Low-Level Calibration Gas
(20-30% of Span)
(600.0 ppm - 900.0 ppm)

Concentration: 742.4
Cylinder No.: CC39257
Expiration Date: 11/16/14

Vendor ID: B62011
Gas Type Code:

Mid-Level Calibration Gas
(50-60% of Span)
(1500.0 ppm - 1800.0 ppm)

Concentration: 1639.0
Cylinder No.: CC151205
Expiration Date: 11/16/14

Vendor ID: B62011
Gas Type Code:

High-Level Calibration Gas
(80-100% of Span)
(2400.0 ppm - 3000.0 ppm)

Concentration: 2526.0
Cylinder No.: XC034480B
Expiration Date: 07/26/21

Vendor ID: B62011
Gas Type Code:

Test Date: 11/06/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	13:53:41	739.2	13:58:41	1628.7	14:03:48	2531.4
Run 2	14:22:37	748.2	14:27:38	1641.0	14:32:39	2538.3
Run 3	14:43:38	765.0	14:48:40	1668.0	14:53:39	2514.9
Avg. Monitor Response		750.800		1645.90		2528.20
Linearity Error		1.1		0.4		0.1
Absolute Difference		8.4		6.9		2.2
Test Status		Pass		Pass		Pass

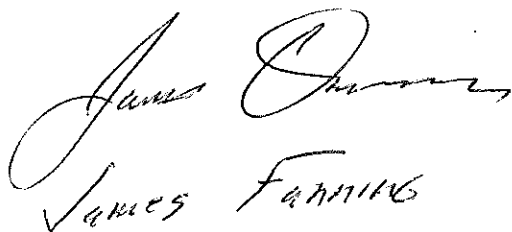
$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm


James Fanning

Linearity Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i

Serial Number: 0622717874

Low-Level Calibration Gas Concentration: 5.550
(20-30% of Span) Cylinder No.: CC27079
(4.000 % - 6.000 %) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Mid-Level Calibration Gas Concentration: 11.020
(50-60% of Span) Cylinder No.: CC214741
(10.000 % - 12.000 %) Expiration Date: 11/16/13

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

High-Level Calibration Gas Concentration: 17.090
(80-100% of Span) Cylinder No.: XC022631B
(16.000 % - 20.000 %) Expiration Date: 07/29/21

Vendor ID: B62011
Gas Type Code: CO,CO2,NO,SO2,BALN

Test Date: 11/06/13

Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:38:38	5.570	12:43:45	11.070	12:48:45	17.090
Run 2	13:08:34	5.580	13:13:37	11.080	13:18:38	17.090
Run 3	13:30:36	5.600	13:35:36	11.070	13:40:37	17.110
Avg. Monitor Response		5.583		11.073		17.097
Linearity Error		0.6		0.5		0.0
Absolute Difference		0.0		0.1		0.0
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS | Cal. Gas Concentration - Avg. Monitor Response |} \times 100}{\text{Cal. Gas Concentration}}$$

$$\text{Absolute Difference} = \text{ABS | Cal. Gas Concentration - Avg. Monitor Response |}$$

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

James Fanning
James Fanning

CGA Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 Inlet SO2 Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717883

Low-Level Calibration Gas Concentration: 502.3
(20-30% of Span) Cylinder No.: CC392257
(400.0 ppm - 600.0 ppm) Expiration Date: 11/16/14

Mid-Level Calibration Gas Concentration: 1099.0
(50-60% of Span) Cylinder No.: CC151205
(1000.0 ppm - 1200.0 ppm) Expiration Date: 11/16/14

Test Date: 11/07/13

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	08:39:43	506.6	08:45:42	1096.0
Run 2	08:57:39	508.0	09:03:43	1094.4
Run 3	09:23:40	507.4	09:29:40	1095.6
Avg. Monitor Response		507.3		1095.3
Calibration Error		1.000		-0.300
Absolute Difference		5.0		3.7
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature:

Print Name:

Technician/Service Representative

CGA Test Report - 2013Q4

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i

Serial Number: 0622717875

Low-Level Calibration Gas Concentration: 5.55
(5.00% - 8.00%) Cylinder No.: CC39257
Expiration Date: 11/16/14

Mid-Level Calibration Gas Concentration: 11.05
(10.00% - 14.00%) Cylinder No.: CC151205
Expiration Date: 11/16/14

Test Date: 11/07/13

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	08:39:43	5.57	08:45:42	11.07
Run 2	08:57:39	5.56	09:03:43	11.04
Run 3	09:23:40	5.57	09:29:40	11.07
Avg. Monitor Response		5.57		11.06
Calibration Error		0.400		0.100
Absolute Difference		0.02		0.01
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response} - \text{Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: _____

Technician/Service Representative

TESFiler0002745

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer: LANSING
Part Number: E05NI94E15A0008
Cylinder Number: CC27079
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62011
Reference Number: 32-400026874-1
Cylinder Volume: 147 Cu.Ft.
Cylinder Pressure: 2015 PSIG
Valve Outlet: 660
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig (i.e. 1 Mega Pascal)

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	50.00 PPM	49.38 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	75.00 PPM	74.49 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	125.0 PPM	124.0 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	5.600 %	5.549 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

124.1 PPM

For Reference Only

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	09060503	CC280417	98.86PPM CARBON MONOXIDE/NITROGEN	Feb 01, 2013
NTRM	11060216	CC281048	49.07PPM SULFUR DIOXIDE/NITROGEN	May 13, 2017
NTRM	11060139	CC332059	248.4PPM NITRIC OXIDE/NITROGEN	Jan 11, 2017

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 10% CO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 100ppmFS CO/N2, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 250ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011
E/N 54, 100ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request :

Notes:

A. F. Muhammad

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Airgas Great Lakes
2009 Bellair Ave.
Royal Oak, MI 48067-8020
www.airgas.com

Customer: LANSING
Part Number: E05NI88E16A0016
Cylinder Number: CC214741
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62011
Reference Number: 32-400026873-1
Cylinder Volume: 151 Cu.Ft.
Cylinder Pressure: 2015 PSIG
Valve Outlet: 660
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2013

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	110.0 PPM	108.3 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	165.0 PPM	164.0 PPM	G1	+/- 1% NIST Traceable
NITRIC OXIDE	275.0 PPM	275.0 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.02 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

Total oxides of nitrogen

275.0 PPM

For Reference Only

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	08060311	CC254043	250.0PPM CARBON MONOXIDE/NITROGEN	May 16, 2012
NTRM	08061635	CC255794	247.0PPM SULFUR DIOXIDE/NITROGEN	Oct 16, 2012
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	10060421	CC268177	495.6PPM NITRIC OXIDE/NITROGEN	Feb 01, 2016

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO ₂ , Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 250ppmFS CO, Siemens	Nondispersive Infrared (NDIR)	Nov 15, 2011
E/N 54, 1000 ppmFS NO, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011
E/N 54, 1000ppmFS SO ₂ , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer:	LANSING	Reference Number:	32-400228723-1
Part Number:	E05NI82E15A0001	Cylinder Volume:	154.6 Cubic Feet
Cylinder Number:	XC022631B	Cylinder Pressure:	2015 PSIG
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Valve Outlet:	660
PGVP Number:	B62013	Certification Date:	Jul 29, 2013
Gas Code:	CO,CO2,NO,SO2,BALN		

Expiration Date: Jul 29, 2021

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	425.0 PPM	422.2 PPM	G1	+/- 1.2% NIST Traceable	07/22/2013, 07/29/2013
SULFUR DIOXIDE	170.0 PPM	170.9 PPM	G1	+/- 1.0% NIST Traceable	07/22/2013, 07/29/2013
CARBON MONOXIDE	255.0 PPM	254.1 PPM	G1	+/- 1% NIST Traceable	07/24/2013
NITRIC OXIDE	425.0 PPM	422.2 PPM	G1	+/- 1.2% NIST Traceable	07/22/2013, 07/29/2013
CARBON DIOXIDE	17.00 %	17.09 %	G1	+/- 0.8% NIST Traceable	07/22/2013
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	11060849	CC343231	241.0 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.8%	May 13, 2017
PRM	12312	680179	10.01 PPM NITROGEN DIOXIDE/NITROGEN	+/- 2.0%	Feb 14, 2012
NTRM	126062428	CC366883	487.1 PPM CARBON MONOXIDE/NITROGEN	+/- 0.6%	Jun 22, 2018
NTRM	12061043	CC359540	500.7 PPM NITRIC OXIDE/NITROGEN	+/-0.50%	Feb 16, 2018
NTRM	12061521	CC354778	19.87 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 27, 2018
The SRM, PRM or RGM noted above is only in reference to the GMIS used in the assay and not part of the analysis.					

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, HCO2, Nicolet 6700	FTIR	Jul 09, 2013
E/N 173, 500ppmFS CO, Siemens Ultramat	Nondispersive Infrared (NDIR)	Jul 24, 2013
E/N 54, MNO, Nicolet 6700	FTIR	Jul 08, 2013
E/N 54, 4ppm FS NO2, Nicolet 6700	FTIR	Jul 26, 2013
E/N 54, MSO2, Nicolet 6700	FTIR	Jul 08, 2013

Triad Data Available Upon Request

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer:	LANSING	Reference Number:	32-400026870-1
Part Number:	E04NI94E15A0013	Cylinder Volume:	147.3 CF
Cylinder Number:	CC39257	Cylinder Pressure:	2015 PSIG
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Valve Outlet:	660
PGVP Number:	B62011	Certification Date:	Nov 16, 2011
Gas Code:	CO,CO2,SO2,BALN		

Expiration Date: Nov 16, 2019

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	500.0 PPM	502.3 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON MONOXIDE	750.0 PPM	742.4 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON DIOXIDE	5.500 %	5.555 %	G1	+/- 1% NIST Traceable	11/09/2011
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	09061013	CC300405	479.5 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.6%	May 15, 2015
NTRM	09060421	CC286588	501.3 PPM CARBON MONOXIDE/NITROGEN		Feb 01, 2013
NTRM	9060606	CC262087	9.921 % CARBON DIOXIDE/NITROGEN		Apr 10, 2013

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 11% CO2, Nicolet 6700	OBSOLETE	Oct 28, 2011
E/N 173, 5000 ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 1000ppmFS SO2, Nicolet 6700	OBSOLETE	Nov 11, 2011

Triad Data Available Upon Request

Notes:

Signature on file

Approved for Release



IN Service 5-23-12

Airgas Great Lakes
2009 Bellaire Ave.
Royal Oak, MI 48067-8020
www.airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer: LANSING
Part Number: E04NI88E15A1FJ0
Cylinder Number: CC151205
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62011
Reference Number: 32-400026871-1
Cylinder Volume: 151 Cu.Ft.
Cylinder Pressure: 2016 PSIG
Valve Outlet: 660
Analysis Date: Nov 16, 2011

Expiration Date: Nov 16, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig, i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	1100 PPM	1099 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	1650 PPM	1639 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.05 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	0712609	CC239950	2478PPM SULFUR DIOXIDE/NITROGEN	Mar 23, 2017
NTRM	9060606	CC262087	9.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	020502	SG9161128BAL	1488PPM CARBON MONOXIDE/NITROGEN	May 15, 2012

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO ₂ , Nicolet 6700	Fourier Transform Infrared (FTIR)	Oct 28, 2011
E/N 173, 5000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 4800ppmFS SO ₂ , Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

A. F. Muhammad

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer: TES FILER CITY STATION
Part Number: E04NI82E15A3LD7
Cylinder Number: XC034480B
Laboratory: MIC - Royal Oak-32 (SAP) - MI
PGVP Number: B62013
Gas Code: CO,CO2,SO2,BALN

Reference Number: 32-400225893-1
Cylinder Volume: 154.8 Cubic Feet
Cylinder Pressure: 2015 PSIG
Valve Outlet: 660
Certification Date: Jul 26, 2013

Expiration Date: Jul 26, 2021

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	1700 PPM	1694 PPM	G1	+/- 1.1% NIST Traceable	07/19/2013, 07/26/2013
CARBON MONOXIDE	2550 PPM	2526 PPM	G1	+/- 0.6% NIST Traceable	07/23/2013
CARBON DIOXIDE	17.00 %	17.00 %	G1	+/- 0.6% NIST Traceable	07/23/2013
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	97040302	CC66762	2349 PPM SULFUR DIOXIDE/NITROGEN	+/- 1.0%	Oct 05, 2017
NTRM	12060739	CC356228	2498 PPM CARBON MONOXIDE/NITROGEN	+/- 0.6%	Dec 21, 2017
NTRM	120615	CC354699	19.87 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 27, 2018

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 173, HCO ₂ , SIEMENS ULTRAMAT 6	Nondispersive Infrared(NDIR)	Jun 27, 2013
E/N 173, 5000 ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Jun 27, 2013
E/N 54, HSO ₂ , Nicolet 6700	FTIR	Jul 08, 2013

Triad Data Available Upon Request

Notes:

Signature on file

Approved for Release